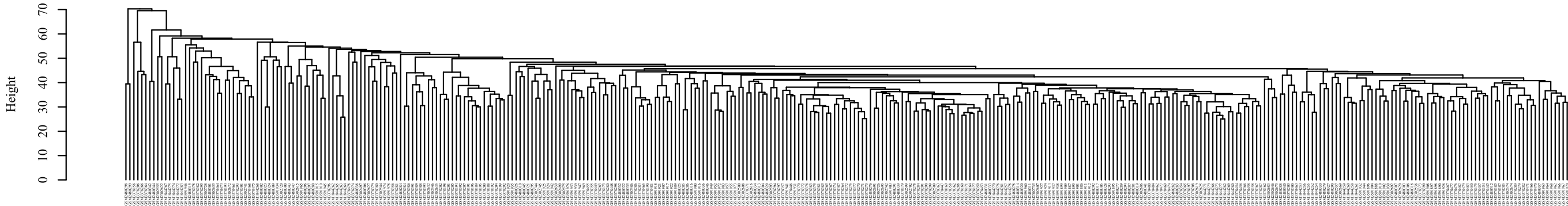
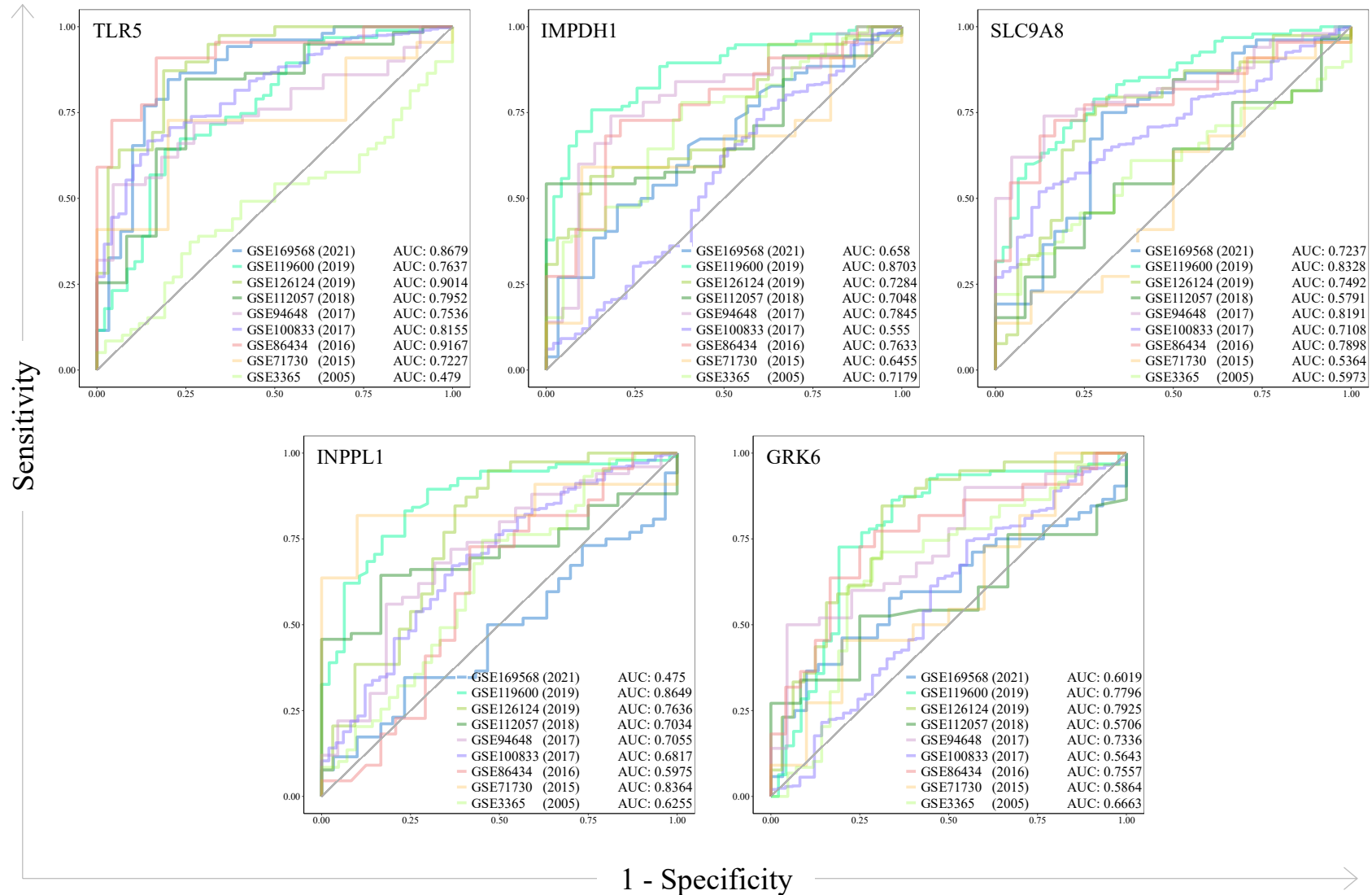


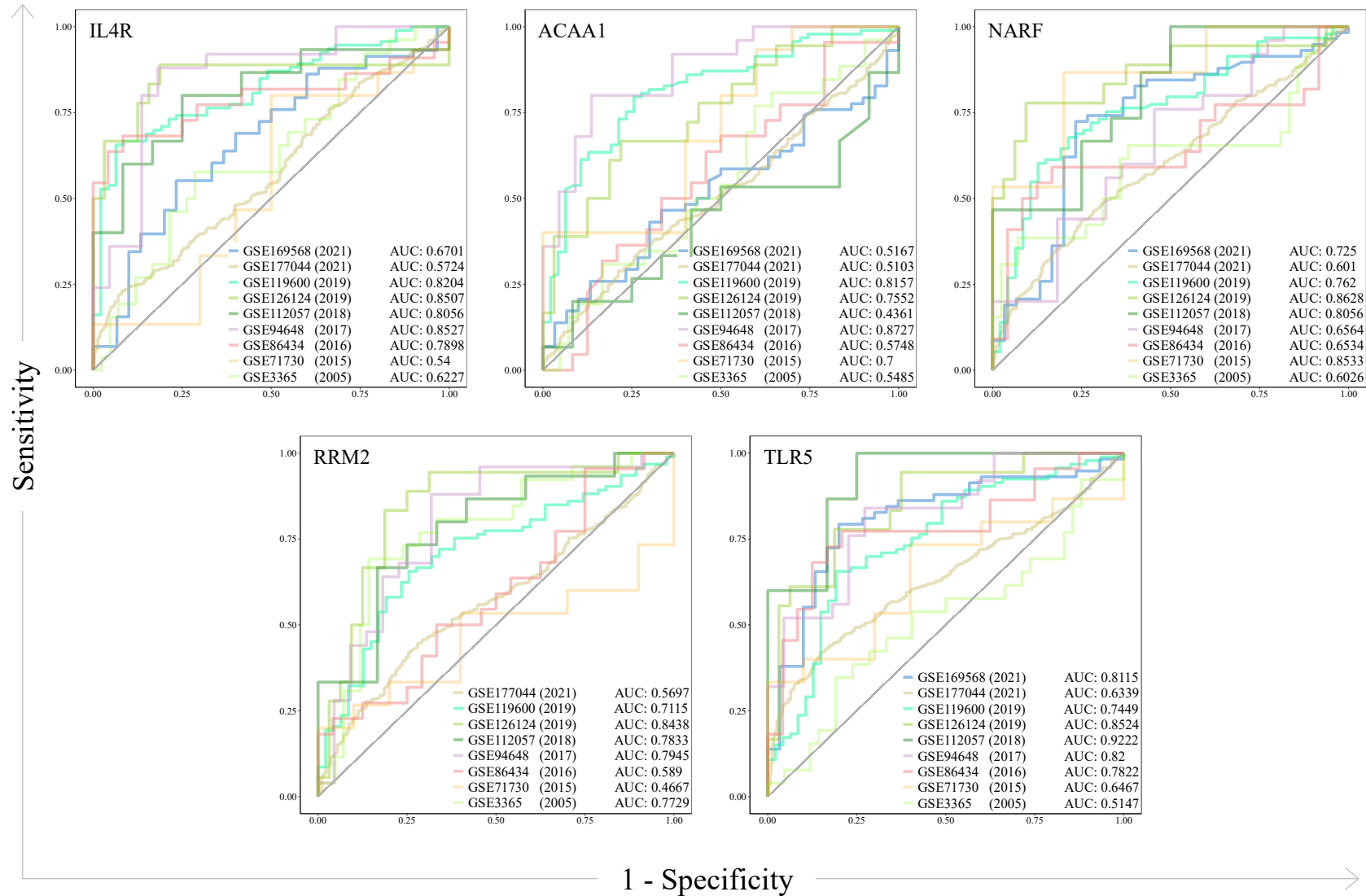
Supplementary Figure S1. Outlier detection using principal component analysis (PCA) in **(a)** GSE276395, **(b)** GSE169568, **(c)** GSE177044, **(d)** GSE119600, **(e)** GSE126124, **(f)** GSE112057, **(g)** GSE94648, **(h)** GSE100833, **(i)** GSE86434, **(j)** GSE71730, **(k)** GSE33943, and **(l)** GSE3365. Outliers are demonstrated with a pink label.



Supplementary Figure S2. Hierarchical clustering of samples in the integrated data, which includes samples from patients with CD and HCs.



Supplementary Figure S4. ROC analysis of the diagnostic efficacy of *TLR5*, *IMPDH1*, *SLC9A8*, *INPPL1*, and *GRK6* for CD across the datasets.



Supplementary Figure S5. ROC analysis of the diagnostic efficacy of *IL4R*, *ACAA1*, *NARF*, *RRM2*, and *TLR5* for UC across the datasets.

Supplementary Table S1. Upregulated genes in Crohn's disease.

Gene	logFC	adj.P.Val	Mean expression in controls	Mean expression in CD patients
<i>FCGR1A</i>	1.035702968	4.43797E-19	8.131961117	9.167664085
<i>CD177</i>	0.858452814	1.88348E-09	6.07250708	6.930959893
<i>ANXA3</i>	0.856767902	2.77421E-13	8.125749632	8.982517534
<i>ALPL</i>	0.814745755	1.60761E-13	9.958293905	10.77303966
<i>TLR5</i>	0.796374023	6.82661E-20	8.263478218	9.059852241
<i>FCGR1B</i>	0.787873321	8.32584E-15	7.888073577	8.675946897
<i>ANKRD22</i>	0.783516023	1.92758E-11	6.840863036	7.624379059
<i>SLC26A8</i>	0.7670078	6.82661E-20	6.568113749	7.335121549
<i>HP</i>	0.743920014	2.2529E-12	6.785310025	7.529230039
<i>MMP9</i>	0.737838135	2.40783E-08	10.02939013	10.76722826
<i>S100A12</i>	0.651938039	5.23493E-06	9.975468796	10.62740683
<i>DYSF</i>	0.641507053	8.98539E-14	10.18725725	10.8287643
<i>KCNJ15</i>	0.603569296	1.19965E-15	7.972306456	8.575875752
<i>GYG1</i>	0.592231936	4.91796E-15	9.871870517	10.46410245
<i>RAP1GAP</i>	0.58474913	0.000337229	6.950829305	7.535578435
<i>HK3</i>	0.58263908	6.48532E-15	8.657058716	9.239697796
<i>ADM</i>	0.569691133	3.69309E-10	9.951953946	10.52164508
<i>AIM2</i>	0.561743271	1.7545E-13	7.956836702	8.518579973
<i>PGLYRP1</i>	0.540046477	2.42414E-07	8.590944298	9.130990775
<i>MMP8</i>	0.538419726	2.32537E-06	5.477095233	6.015514959
<i>IL18RAP</i>	0.538301172	7.53315E-08	10.24726668	10.78556785
<i>OLFM4</i>	0.520915419	0.000349155	6.369860154	6.890775574
<i>PFKFB3</i>	0.516663273	4.47101E-10	9.582449998	10.09911327
<i>DSC2</i>	0.515802539	2.25412E-11	7.128879515	7.644682054
<i>ZNF438</i>	0.514868383	2.7377E-17	7.354495773	7.869364156
<i>KREMEN1</i>	0.509234472	4.43797E-19	6.341041584	6.850276056
<i>CA4</i>	0.508717522	1.90986E-08	7.982965327	8.491682849
<i>LTF</i>	0.503697225	6.74823E-05	7.321396557	7.825093782
<i>F5</i>	0.497880708	2.89689E-09	8.193440198	8.691320907
<i>GPR97</i>	0.493460413	3.47364E-12	7.902093043	8.395553457
<i>NCF4</i>	0.488450904	1.19965E-15	9.884838122	10.37328903
<i>PGS1</i>	0.485530455	1.84564E-14	8.923383007	9.408913462
<i>IL4R</i>	0.481081791	2.37497E-16	9.157573814	9.638655605
<i>ROPNIL</i>	0.478826078	1.4522E-10	7.698934839	8.177760917
<i>OPLAH</i>	0.478521027	4.59244E-13	6.382304879	6.860825906
<i>MCTP2</i>	0.476261634	5.95613E-14	7.784348385	8.260610019
<i>ARG1</i>	0.473112306	2.72158E-05	6.467726472	6.940838778
<i>BATF2</i>	0.473066662	3.55968E-09	6.600992081	7.074058744
<i>CACNA1E</i>	0.472486578	4.11357E-16	5.74061142	6.213097998
<i>ALAS2</i>	0.472303496	2.22874E-07	10.55198248	11.02428598
<i>PROK2</i>	0.471592991	7.90505E-08	10.68359468	11.15518767
<i>SERPING1</i>	0.467417893	1.02621E-06	6.94823059	7.415648483
<i>GBP5</i>	0.466023667	2.66512E-06	9.783900438	10.2499241
<i>FES</i>	0.464927499	8.01823E-17	8.776010839	9.240938338
<i>SRPK1</i>	0.464547779	2.73107E-14	8.898342891	9.36289067
<i>MAPK14</i>	0.463999248	2.7377E-17	7.740514768	8.204514016
<i>PSTPIP2</i>	0.460976621	3.99166E-09	8.917674192	9.378650813
<i>NLRC4</i>	0.460923283	2.07897E-12	7.442222912	7.903146195
<i>GK</i>	0.458783807	5.29464E-09	8.929831224	9.38861503
<i>SLC22A4</i>	0.458436843	5.00323E-08	8.169194021	8.627630864
<i>LILRA5</i>	0.457306518	2.89689E-09	8.354118687	8.811425205
<i>GALNT14</i>	0.454234023	8.98539E-14	6.288717116	6.742951139
<i>CD274</i>	0.45331462	4.52701E-09	6.339293108	6.792607728
<i>SIPA1L2</i>	0.451623074	1.26711E-07	7.949583087	8.401206162
<i>TYMP</i>	0.450554337	7.80382E-13	8.434345535	8.884899872
<i>IL18R1</i>	0.444658373	1.26283E-07	8.059171477	8.50382985

<i>SLC37A3</i>	0.441847494	8.25051E-13	7.566352627	8.008200121
<i>TLR8</i>	0.438073527	2.71424E-08	9.160627174	9.598700701
<i>GBP1</i>	0.438038761	1.65575E-06	9.156838528	9.59487729
<i>LMNB1</i>	0.436912663	2.12218E-09	8.427830474	8.864743137
<i>EPST11</i>	0.436166243	8.91768E-05	9.038947032	9.475113275
<i>CEACAM1</i>	0.434954302	4.17654E-08	7.745222219	8.180176521
<i>PYGL</i>	0.430628575	4.02647E-09	10.55706083	10.9876894
<i>GPR84</i>	0.428625415	9.24407E-06	6.472789294	6.901414708
<i>OSM</i>	0.425675829	1.36622E-10	6.783064928	7.208740757
<i>FFAR2</i>	0.425445264	6.26374E-07	9.747138291	10.17258355
<i>CLEC4D</i>	0.424831622	9.88386E-07	7.29097753	7.715809152
<i>BCL6</i>	0.42423353	1.00487E-08	10.196683	10.62091653
<i>ALOX5</i>	0.423055315	1.50609E-14	9.813512016	10.23656733
<i>ALPK1</i>	0.421740575	2.7194E-11	8.405522838	8.827263412
<i>SIGLEC5</i>	0.420297581	1.77805E-10	8.073157291	8.493454872
<i>IFITM3</i>	0.418620812	0.000336548	10.7829309	11.20155171
<i>NQO2</i>	0.413638479	3.30573E-07	8.444110522	8.857749002
<i>NBEAL2</i>	0.410047602	2.02699E-15	8.384418006	8.794465609
<i>SEMA4A</i>	0.409471111	1.50548E-11	8.985379636	9.394850747
<i>ACSL1</i>	0.409123558	7.51672E-06	11.07606785	11.48519141
<i>HSPA6</i>	0.408091891	1.5375E-10	9.794753252	10.20284514
<i>GBP2</i>	0.40803286	3.76475E-11	11.27151496	11.67954782
<i>VNN1</i>	0.407541715	8.98179E-06	7.461649956	7.869191671
<i>LPCAT2</i>	0.40553152	9.45262E-07	7.851718969	8.257250489
<i>LIMK2</i>	0.404872187	4.59244E-13	7.786082083	8.19095427
<i>CRI</i>	0.402566607	4.99941E-10	7.24722946	7.649796067
<i>MMP25</i>	0.40114211	1.49378E-07	9.60002801	10.00117012
<i>ST3GAL4</i>	0.401125075	9.07976E-13	6.713910628	7.115035702
<i>PARP9</i>	0.400178699	1.89653E-10	9.341238827	9.741417526
<i>TCN1</i>	0.398399938	8.31716E-06	7.078883023	7.477282961
<i>DHRS13</i>	0.398363296	1.60704E-10	8.227994282	8.626357578
<i>CAMP</i>	0.398354579	0.000155958	8.815448239	9.213802818
<i>STAT1</i>	0.397175668	9.28992E-10	10.59434103	10.9915167
<i>RAB24</i>	0.392769698	4.55729E-16	9.537403585	9.930173283
<i>PADI4</i>	0.391334149	5.11773E-07	9.508143594	9.899477744
<i>ZDHHC19</i>	0.39130651	1.02188E-05	6.468977099	6.860283609
<i>SLC9A8</i>	0.38800315	4.01374E-14	8.335170551	8.7231737
<i>LHFPL2</i>	0.388001194	2.50852E-07	7.909374853	8.297376047
<i>PHTF1</i>	0.387575351	6.23811E-12	7.34051662	7.728091971
<i>TRIM25</i>	0.384398535	2.76435E-10	9.160502763	9.544901298
<i>ITGAM</i>	0.382087613	2.34565E-09	10.12932605	10.51141366
<i>ZNF467</i>	0.380238058	2.07897E-12	9.437153037	9.817391095
<i>FLOT2</i>	0.379924296	7.57881E-15	10.98229231	11.36221661
<i>LPAR2</i>	0.379033311	8.09223E-11	9.045355557	9.424388868
<i>NSUN7</i>	0.378644401	1.40731E-09	6.358838235	6.737482636
<i>HCK</i>	0.378363838	1.40855E-09	10.61321141	10.99157525
<i>SHKBP1</i>	0.378125283	8.19822E-13	8.769828384	9.147953667
<i>TDRD9</i>	0.377664121	1.64217E-06	6.346669074	6.724333195
<i>SLC12A9</i>	0.374097561	6.78259E-14	9.05796393	9.432061491
<i>VCAN</i>	0.373442886	3.94296E-05	10.81109478	11.18453766
<i>CREB5</i>	0.371861558	3.1648E-11	8.010162315	8.382023873
<i>CST7</i>	0.371369312	0.000115676	10.46708295	10.83845226
<i>SAMD9L</i>	0.371281273	5.55072E-07	9.025986807	9.397268079
<i>TSPO</i>	0.368651949	7.84142E-12	10.79161228	11.16026423
<i>QPCT</i>	0.367678988	2.1371E-07	9.548193588	9.915872576
<i>PGD</i>	0.367520386	2.92373E-12	9.798157043	10.16567743
<i>FOLR3</i>	0.367310697	0.003864975	9.063981941	9.431292638
<i>NAIP</i>	0.363352548	1.4919E-10	7.5811907	7.944543248
<i>IGJ</i>	0.363184212	0.006786902	9.106085538	9.46926975

<i>BMX</i>	0.362778521	1.48597E-09	6.189094977	6.551873498
<i>SLC11A1</i>	0.361873141	5.65983E-07	9.262345272	9.624218413
<i>IFIT3</i>	0.360559926	0.001756823	9.049438405	9.409998331
<i>SCO2</i>	0.359566973	9.50105E-10	8.674233667	9.03380064
<i>RGL4</i>	0.35873212	4.81636E-07	8.650230568	9.008962688
<i>NARF</i>	0.35826692	4.88771E-15	8.786423734	9.144690654
<i>IFI35</i>	0.358033093	1.78313E-07	9.014895851	9.372928944
<i>P2RX1</i>	0.356911418	6.56161E-10	8.212461168	8.569372586
<i>GLT1D1</i>	0.356592572	2.52408E-11	8.092159316	8.448751889
<i>PFKFB4</i>	0.35646404	4.60384E-10	9.105617224	9.462081265
<i>TAP1</i>	0.356089885	3.49533E-11	11.09313322	11.4492231
<i>LCN2</i>	0.355102387	0.008600013	9.047374203	9.40247659
<i>CD14</i>	0.354707345	4.73335E-05	11.87212179	12.22682914
<i>LRG1</i>	0.354122798	1.42072E-05	8.857271309	9.211394107
<i>CEACAM8</i>	0.353737012	0.014405884	7.358682932	7.712419944
<i>ENTPD1</i>	0.352257611	5.30109E-14	8.530765892	8.883023503
<i>GBGT1</i>	0.349854115	2.17251E-12	7.855549611	8.205403726
<i>PLSCR1</i>	0.349004297	1.14048E-05	7.530979108	7.879983405
<i>MKNK1</i>	0.348010181	2.10229E-11	8.592075648	8.94008583
<i>RAB31</i>	0.345307407	1.56504E-11	11.05441178	11.39971918
<i>DEFA4</i>	0.344046813	0.028899786	7.542254317	7.88630113
<i>TKT</i>	0.343657208	7.80382E-13	11.03597882	11.37963603
<i>SLC2A3</i>	0.343320396	2.22874E-07	11.76618566	12.10950605
<i>BPI</i>	0.34243152	9.22295E-05	6.601172576	6.943604096
<i>TNFRSF17</i>	0.340744669	0.000218178	6.564834528	6.905579197
<i>CLEC5A</i>	0.339906385	9.93359E-05	6.633761208	6.973667593
<i>MVP</i>	0.339389844	1.19965E-15	9.236772468	9.576162312
<i>MYBPC3</i>	0.339109241	1.32003E-09	7.05870626	7.397815501
<i>SBNO2</i>	0.336299236	3.38897E-11	7.739237612	8.075536848
<i>NLRP12</i>	0.333985227	1.4305E-10	8.615806304	8.949791531
<i>XK</i>	0.332512121	0.00360452	7.615993854	7.948505974
<i>TNFAIP6</i>	0.331833376	0.005356965	8.384709461	8.716542837
<i>ETV7</i>	0.331822141	5.00883E-06	6.268591559	6.600413699
<i>IMPDH1</i>	0.33166837	2.33105E-16	8.565631682	8.897300052
<i>WARS</i>	0.33007352	7.28629E-06	9.964591885	10.2946654
<i>OSCAR</i>	0.328625544	2.01257E-11	8.762808308	9.091433853
<i>PLEK2</i>	0.328251234	0.000436982	7.700346255	8.028597489
<i>VNN2</i>	0.327506312	5.57557E-07	11.06651024	11.39401656
<i>IRAK3</i>	0.327440742	3.64049E-05	8.425865648	8.75330639
<i>CEACAM3</i>	0.326627995	2.34565E-09	7.975551886	8.302179881
<i>HAUS4</i>	0.325635049	1.66209E-11	8.902346628	9.227981677
<i>EMRI</i>	0.32547621	1.00476E-07	7.965107948	8.290584159
<i>TLR6</i>	0.325387963	2.58983E-09	8.381962345	8.707350307
<i>SIAH2</i>	0.324410343	0.000474469	8.881428443	9.205838785
<i>LTB4R</i>	0.323586823	8.09223E-11	7.691904578	8.015491402
<i>CA1</i>	0.3228911	0.046471842	8.622073834	8.944964933
<i>TSTA3</i>	0.322410052	0.000518892	8.283315407	8.60572546
<i>CASP5</i>	0.322194072	8.61585E-05	7.045986665	7.368180738
<i>IRF1</i>	0.321997838	3.20872E-11	11.35690171	11.67889955
<i>TLR4</i>	0.32189313	4.15325E-06	8.673845076	8.995738206
<i>TMEM158</i>	0.321701668	0.011338163	8.752271997	9.073973665
<i>ELANE</i>	0.321536716	0.011067466	7.093911176	7.415447892
<i>SLC22A15</i>	0.320499838	5.43431E-08	7.576225576	7.896725414
<i>EIF4E3</i>	0.320287879	2.92373E-12	9.438572901	9.75886078
<i>DHRS12</i>	0.319501779	1.71516E-14	7.167581064	7.487082843
<i>GRN</i>	0.31885053	4.07421E-10	10.32002416	10.63887469
<i>STX3</i>	0.318541607	2.10643E-08	9.435470876	9.754012483
<i>GBA</i>	0.317400914	1.71516E-14	8.214856958	8.532257872
<i>ORM1</i>	0.317183514	0.007498385	7.440149376	7.75733289

<i>NFE2</i>	0.316798557	1.57406E-06	10.82074242	11.13754097
<i>FRAT2</i>	0.315437376	1.5375E-10	11.05266405	11.36810143
<i>BASPI</i>	0.315193828	5.4007E-07	11.54734144	11.86253527
<i>GCA</i>	0.313591465	3.21342E-06	11.48366986	11.79726132
<i>SORT1</i>	0.313523005	1.39289E-08	7.91206157	8.225584575
<i>SMARCD3</i>	0.313299535	2.33105E-16	6.852246957	7.165546492
<i>DUSP3</i>	0.31314459	1.66209E-11	8.771593788	9.084738378
<i>SOCS3</i>	0.312723478	1.29676E-09	6.770877981	7.083601459
<i>SIGLEC9</i>	0.310650754	5.58284E-11	7.494431176	7.80508193
<i>TIMP2</i>	0.310465596	1.10051E-09	9.117527573	9.427993169
<i>NOD2</i>	0.307766662	3.72758E-06	8.5538458	8.861612462
<i>CYTH4</i>	0.307654633	7.1251E-11	9.877665984	10.18532062
<i>MXD3</i>	0.305848771	7.09213E-14	7.268463156	7.574311927
<i>TMEM176A</i>	0.305207788	0.024756866	7.407904145	7.713111933
<i>PLXDC2</i>	0.30511727	4.26281E-05	8.418409972	8.723527242
<i>HPSE</i>	0.304686183	6.80875E-06	7.941912521	8.246598704
<i>STX11</i>	0.304059035	3.01175E-07	9.647427951	9.951486986
<i>MPO</i>	0.303627856	0.000370432	6.389565361	6.693193217
<i>PHF21A</i>	0.303547649	2.04375E-11	9.874458426	10.17800607
<i>TECPR2</i>	0.303438818	3.59586E-09	7.19127039	7.494709208
<i>FUT7</i>	0.303174694	6.19927E-12	6.7191998	7.022374494
<i>CCR2</i>	0.303002553	4.47388E-05	7.91268021	8.215682763
<i>RNF24</i>	0.302845971	1.00683E-06	9.761150278	10.06399625
<i>GRINA</i>	0.302293607	1.23331E-05	8.93170942	9.234003027
<i>C17orf62</i>	0.301620143	1.71516E-14	9.59852379	9.900143934
<i>CIRL</i>	0.301546664	2.881E-11	8.014612433	8.316159098
<i>IL17RA</i>	0.301215494	5.44784E-10	9.565917394	9.867132888
<i>GADD45B</i>	0.301172537	5.83222E-13	8.653767226	8.954939763
<i>ITGA2B</i>	0.30095932	0.002309779	7.447826286	7.748785605
<i>FLOT1</i>	0.300736331	4.85398E-08	9.412929514	9.713665845
<i>TNFSF10</i>	0.300374393	7.93717E-09	10.57295218	10.87332658
<i>TGFA</i>	0.299444968	1.44585E-07	6.977355282	7.27680025
<i>DDX60L</i>	0.298411384	6.01896E-06	8.587412183	8.885823567
<i>FAM129A</i>	0.297787699	3.63109E-05	11.2607346	11.5585223
<i>DGAT2</i>	0.297636086	2.36953E-07	8.027332058	8.324968144
<i>JAK2</i>	0.296257798	5.22018E-08	7.691497584	7.987755382
<i>FBXO6</i>	0.296169631	1.18845E-05	8.005442205	8.301611836
<i>CEACAM6</i>	0.29562906	0.018526819	6.331240776	6.626869836
<i>MICAL1</i>	0.295582905	1.6492E-11	8.928162887	9.223745792
<i>GRAMD1A</i>	0.295455005	1.74139E-10	9.092860817	9.388315822
<i>S100A8</i>	0.2946199	8.22063E-05	12.68201687	12.97663677
<i>RNF182</i>	0.293187344	0.018847338	6.155217949	6.448405293
<i>PLXNC1</i>	0.293028001	3.3208E-06	8.181717457	8.474745458
<i>FNDC3B</i>	0.292488201	4.42047E-08	8.58871031	8.881198511
<i>UBXN2B</i>	0.291850151	1.61518E-08	8.794581978	9.086432129
<i>TMOD1</i>	0.290831183	0.007927133	8.614083659	8.904914843
<i>AQP9</i>	0.290141878	8.08075E-05	12.14680183	12.4369437
<i>STX10</i>	0.290043791	1.4135E-12	9.321152277	9.611196068
<i>DENND3</i>	0.289604311	3.62629E-07	9.012021583	9.301625893
<i>NUCB1</i>	0.28943806	2.10229E-11	10.67978054	10.9692186
<i>MLKL</i>	0.287920514	1.44034E-12	9.128813557	9.416734071
<i>TRPM6</i>	0.287659039	5.01393E-07	6.97350175	7.261160789
<i>SECTMI</i>	0.287390697	7.84142E-12	7.692764245	7.980154942
<i>TFDPI</i>	0.287285337	8.85806E-05	8.868586231	9.155871568
<i>WIPI1</i>	0.286737798	2.92428E-07	8.017630674	8.304368472
<i>GRB10</i>	0.286615254	4.40478E-09	6.407137027	6.693752281
<i>DOK3</i>	0.284909036	1.28876E-08	7.801933727	8.086842763
<i>PRKCD</i>	0.284642228	3.70957E-11	9.79139806	10.07604029
<i>RALB</i>	0.28379135	3.78884E-07	10.31118286	10.59497421

<i>INPPL1</i>	0.283398694	6.41488E-14	8.533334068	8.816732762
<i>AHSP</i>	0.282934845	0.043956532	9.803910055	10.0868449
<i>KLHL2</i>	0.282899171	1.97983E-05	8.895782057	9.178681228
<i>HIST2H2BE</i>	0.28286121	5.15134E-05	9.518582389	9.8014436
<i>PQLC1</i>	0.282347605	2.62311E-09	9.51189445	9.794242055
<i>HIST1H2BK</i>	0.281766104	8.9002E-06	10.46353625	10.74530235
<i>TNFSF13B</i>	0.28159265	5.40086E-06	10.44808306	10.72967571
<i>ERI1</i>	0.281356653	1.9687E-11	6.75170867	7.033065323
<i>FBXL5</i>	0.28106876	1.63244E-09	9.484619041	9.765687801
<i>ABTB1</i>	0.280734893	2.86442E-08	9.480887714	9.761622607
<i>MYD88</i>	0.280669458	6.35313E-13	10.14308717	10.42375663
<i>PADI2</i>	0.280634866	3.91903E-08	7.237608	7.518242866
<i>FBXL13</i>	0.280143851	5.56791E-06	6.609342781	6.889486633
<i>ILIR2</i>	0.279900664	0.0080231	8.663068235	8.942968899
<i>KIF1B</i>	0.278562313	2.59927E-07	7.619858045	7.898420358
<i>CRISP3</i>	0.278286967	0.000120237	5.981985729	6.260272696
<i>MYO1F</i>	0.278125208	1.14132E-07	9.77070526	10.04883047
<i>TRIB1</i>	0.275277691	4.47099E-08	8.132097208	8.407374899
<i>MBOAT2</i>	0.275056924	2.88845E-07	7.391927784	7.666984708
<i>BCL3</i>	0.272953203	6.14102E-08	8.638110164	8.911063367
<i>INSC</i>	0.27223257	2.23421E-07	5.911033244	6.183265814
<i>CD38</i>	0.271900498	5.78654E-05	7.20179077	7.473691269
<i>LRP10</i>	0.27081339	3.71079E-08	10.89610993	11.16692332
<i>FAM126B</i>	0.270409986	1.20138E-05	8.33778984	8.608199825
<i>RBCK1</i>	0.270302392	3.27727E-15	9.041545441	9.311847833
<i>DRAM1</i>	0.270197497	3.955E-07	7.866775966	8.136973463
<i>SH3BP5L</i>	0.269929984	1.58598E-10	8.385706149	8.655636133
<i>RGS19</i>	0.26931804	7.5138E-14	9.628814156	9.898132195
<i>IRF7</i>	0.267837374	8.64879E-07	8.620209998	8.888047372
<i>STAT5B</i>	0.267575394	1.39053E-09	8.984594614	9.252170008
<i>REM2</i>	0.267236331	1.82299E-05	7.863693227	8.130929558
<i>MME</i>	0.266086033	4.92051E-05	9.020982412	9.287068445
<i>CD59</i>	0.266042144	6.19927E-12	7.253314823	7.519356967
<i>RHBDF2</i>	0.2659167	2.23645E-10	8.40024371	8.66616041
<i>LRRC6</i>	0.265894365	0.000120062	6.616973322	6.882867687
<i>ACAA1</i>	0.265510775	3.90982E-13	8.802424626	9.067935401
<i>ZYX</i>	0.265492216	4.75607E-09	10.51117144	10.77666365
<i>TRIM22</i>	0.26536503	2.08424E-05	10.03519824	10.30056327
<i>LRPAP1</i>	0.264812618	3.41803E-09	7.855521526	8.120334144
<i>PARP10</i>	0.264515561	5.40057E-14	7.45661796	7.721133521
<i>DDAH2</i>	0.263281596	8.0342E-09	7.394274681	7.657556276
<i>S100A6</i>	0.263240047	8.18304E-06	10.65852174	10.92176178
<i>TCIRG1</i>	0.263000437	9.14075E-11	9.070201535	9.333201972
<i>MPP1</i>	0.26132035	0.002878066	11.04650694	11.30782728
<i>OXER1</i>	0.261197849	9.2901E-11	7.104620788	7.365818637
<i>MNDA</i>	0.260948575	0.000579109	11.36416791	11.62511648
<i>CCDC88B</i>	0.260822633	1.7779E-09	7.934935893	8.195758526
<i>RHD</i>	0.260600976	3.67809E-05	6.160657601	6.421258577
<i>SLC40A1</i>	0.260581909	1.45938E-07	8.975949349	9.236531258
<i>SLC25A37</i>	0.260515592	0.000313496	11.72858283	11.98909842
<i>GMPR</i>	0.260229248	0.035797327	9.136724365	9.396953613
<i>RRM2</i>	0.260090543	6.53835E-09	6.031715152	6.291805695
<i>TMCO3</i>	0.259375916	1.23942E-07	7.494247563	7.75362348
<i>STEAP4</i>	0.2591139	9.07503E-05	8.078283127	8.337397026
<i>MGAM</i>	0.258859267	0.000639784	8.280238722	8.539097989
<i>C10orf54</i>	0.258387901	4.95026E-08	10.76834037	11.02672827
<i>ZBP1</i>	0.258340172	2.71631E-05	8.886855466	9.145195637
<i>LTBR</i>	0.258299216	1.66209E-11	7.817689736	8.075988952
<i>S1PR4</i>	0.258255355	1.42527E-08	9.728773259	9.987028615

<i>TRAFD1</i>	0.257952288	3.55341E-09	8.660755404	8.918707692
<i>NCF1</i>	0.257861139	3.90468E-05	11.03905844	11.29691958
<i>THOC5</i>	0.257676756	6.36461E-14	8.077836382	8.335513139
<i>PLB1</i>	0.257172103	7.47586E-08	6.32214376	6.579315863
<i>NFIL3</i>	0.257125512	0.00011922	9.307348772	9.564474284
<i>GNG10</i>	0.256412881	0.000435963	9.797911574	10.05432445
<i>NCF2</i>	0.25622094	0.00010842	11.36529644	11.62151738
<i>ATP9A</i>	0.255981241	5.30933E-05	6.780136499	7.036117739
<i>SQRDL</i>	0.255875801	2.84734E-09	9.067341486	9.323217286
<i>NLRC5</i>	0.255073263	1.83458E-11	8.6843662	8.939439463
<i>KCTD12</i>	0.25487851	0.000168295	8.938853178	9.193731688
<i>TREML2</i>	0.254716594	3.85209E-07	8.002757121	8.257473715
<i>UPP1</i>	0.253866549	5.17905E-07	8.717320616	8.971187166
<i>WDFY3</i>	0.253830071	9.93978E-08	6.89332393	7.147154001
<i>USF1</i>	0.253789499	1.2098E-07	7.692914807	7.946704306
<i>AGPAT9</i>	0.253677735	0.000131774	9.224717315	9.47839505
<i>PINK1</i>	0.253431078	3.93339E-05	9.03006312	9.283494198
<i>HK1</i>	0.253396945	1.05774E-06	9.411649976	9.665046922
<i>JUNB</i>	0.253392372	1.73722E-07	9.019349762	9.272742134
<i>TMEM120A</i>	0.253085484	5.49096E-07	8.627300982	8.880386465
<i>RETN</i>	0.253050341	0.001404765	6.896484087	7.149534428
<i>HIST1H3F</i>	0.252982051	3.69637E-06	6.682240745	6.935222796
<i>BEST1</i>	0.2527012	8.07202E-06	7.998143562	8.250844762
<i>TMEM176B</i>	0.25263296	0.00769038	6.762201082	7.014834042
<i>FAM160B1</i>	0.25251228	2.2529E-12	7.920683421	8.173195701
<i>CRISPLD2</i>	0.252390643	0.00016746	9.222956937	9.475347581
<i>FCGR2A</i>	0.252350528	1.85792E-05	9.584058487	9.836409015
<i>TBC1D2</i>	0.252323246	3.04604E-08	7.687512572	7.939835818
<i>ADCY4</i>	0.252264117	2.87307E-08	7.072212159	7.324476276
<i>LRRN1</i>	0.252232268	9.31501E-07	5.634193274	5.886425542
<i>TIMM10</i>	0.252062338	0.000431658	7.860855254	8.112917592
<i>BRI3</i>	0.250995501	1.07503E-06	9.79729699	10.04829249
<i>MXD1</i>	0.250831424	5.61645E-05	11.1926036	11.44343503
<i>APBB3</i>	0.250663864	1.08231E-07	8.081994797	8.332658661
<i>DNAJC5</i>	0.250403201	2.23409E-12	8.119979735	8.370382937
<i>GSDMD</i>	0.249684545	3.11515E-09	9.128158412	9.377842957
<i>PARP14</i>	0.249390709	9.21829E-05	9.402312681	9.65170339
<i>BST1</i>	0.249210811	1.79685E-05	8.45131377	8.700524581
<i>GLIPR2</i>	0.248889473	1.40855E-09	11.12726266	11.37615214
<i>ABCA7</i>	0.248359224	2.22874E-07	7.542519536	7.79087876
<i>DACH1</i>	0.24831934	1.89653E-10	5.739166733	5.987486073
<i>ARHGAP4</i>	0.248163691	2.53889E-08	9.484257174	9.732420865
<i>FCN1</i>	0.247659039	0.001841605	12.04316731	12.29082635
<i>CAMKK2</i>	0.247604545	1.88959E-06	7.609859722	7.857464266
<i>APBB1IP</i>	0.247549111	2.07855E-08	9.988859958	10.23640907
<i>CTSG</i>	0.247083508	0.024749468	6.641617426	6.888700934
<i>LILRB3</i>	0.246289055	8.21801E-08	11.76984868	12.01613773
<i>SH3GLB1</i>	0.246037846	2.28683E-06	10.09594199	10.34197983
<i>SLPI</i>	0.245736073	0.005035835	7.584726586	7.830462659
<i>EMILIN2</i>	0.245367651	5.95797E-07	9.050096182	9.295463833
<i>ACTN1</i>	0.245227984	1.18501E-06	10.2942787	10.53950668
<i>HDAC4</i>	0.245150243	5.38752E-08	7.963039414	8.208189658
<i>SH3BGRL2</i>	0.244736822	0.005329768	8.442633892	8.687370714
<i>HIST1H4D</i>	0.244723974	1.43057E-07	5.841279966	6.08600394
<i>SLC25A44</i>	0.244672541	3.552E-07	9.818594977	10.06326752
<i>FAM46C</i>	0.244306438	0.040265804	10.79152658	11.03583302
<i>CBS</i>	0.244208218	3.5471E-05	6.453174996	6.697383214
<i>TXN</i>	0.244160675	0.002347637	10.23163908	10.47579975
<i>MBOAT7</i>	0.244011254	1.19913E-05	9.76442085	10.0084321

<i>YIPF1</i>	0.243771408	7.80382E-13	9.14033844	9.384109849
<i>EIF2AK2</i>	0.243281755	0.000432491	9.134273768	9.377555523
<i>AMICA1</i>	0.243189631	2.75964E-09	11.71789612	11.96108575
<i>QSOX1</i>	0.243180961	2.74322E-09	7.574367307	7.817548269
<i>NADK</i>	0.24314174	5.19539E-06	9.31631851	9.55946025
<i>B3GNT8</i>	0.242896533	8.05742E-10	6.784633198	7.027529731
<i>IFIT2</i>	0.24254075	0.006932697	10.37098495	10.6135257
<i>P2RY14</i>	0.24248658	0.000304422	7.214515016	7.457001596
<i>DHRS9</i>	0.242465452	0.002514147	8.201963368	8.444428821
<i>RAB32</i>	0.241859945	5.20124E-06	8.667847867	8.909707812
<i>SLC2A14</i>	0.241798623	0.00015499	8.315336049	8.557134672
<i>LIN7A</i>	0.241770257	2.25403E-06	6.865950885	7.107721141
<i>PACSIN2</i>	0.24170473	3.35502E-08	9.120322427	9.362027157
<i>ASPHD2</i>	0.241668359	1.29561E-10	7.436733034	7.678401393
<i>TOM1</i>	0.241575343	1.4305E-10	8.626786618	8.868361961
<i>SIRPD</i>	0.241386728	8.28337E-08	7.090957497	7.332344225
<i>VAV1</i>	0.241288771	4.84351E-08	9.176291842	9.417580613
<i>GADD45A</i>	0.24116606	0.001702902	7.831028056	8.072194116
<i>CTSA</i>	0.240902192	1.06817E-06	9.881163787	10.12206598
<i>TLR1</i>	0.240855247	0.001438854	9.399980151	9.640835398
<i>ARHGAP9</i>	0.240850033	1.00547E-08	10.81048635	11.05133639
<i>NFXL1</i>	0.240656491	0.007506851	7.638464389	7.87912088
<i>CEBPB</i>	0.240547507	9.56064E-06	11.93326987	12.17381737
<i>MANSC1</i>	0.240517529	0.00098266	7.897228056	8.137745585
<i>CDC20</i>	0.240401287	5.73767E-05	6.513446886	6.753848172
<i>CMTM2</i>	0.240316924	0.001695575	9.98764059	10.22795751
<i>FAM160A2</i>	0.240243503	4.54874E-09	8.302270485	8.542513988
<i>PLEKH02</i>	0.239817402	1.13589E-07	9.413974849	9.653792251
<i>CKAP4</i>	0.239639875	2.23029E-05	9.167124481	9.406764356
<i>LILRA3</i>	0.238856984	0.008888308	9.33320873	9.572065714
<i>MYOF</i>	0.238687244	0.004114813	7.09214561	7.330832854
<i>FRAT1</i>	0.238201918	1.76226E-07	8.442995535	8.681197453
<i>CDC34</i>	0.238097546	0.004150376	8.747516455	8.985614001
<i>CCPG1</i>	0.237661034	1.46437E-06	8.406932447	8.644593481
<i>TMEM140</i>	0.23732659	4.53822E-05	10.39189487	10.62922146
<i>REC8</i>	0.237261346	2.2529E-12	7.258108583	7.495369928
<i>ORAI2</i>	0.236436249	1.20066E-09	7.27177709	7.508213339
<i>SMOX</i>	0.236434673	0.006558096	7.504521388	7.740956062
<i>ATG16L2</i>	0.235939426	8.84349E-05	9.087841288	9.323780714
<i>CIQB</i>	0.235743163	0.002517131	6.154202435	6.389945598
<i>CYP4F3</i>	0.235156006	0.000941677	8.726433772	8.961589778
<i>NPEPL1</i>	0.235039097	6.25262E-08	8.574683184	8.809722281
<i>MCTP1</i>	0.234788225	2.62847E-06	7.114653748	7.349441974
<i>CD163</i>	0.23440594	0.001015666	8.08032622	8.31473216
<i>IFI16</i>	0.234396987	3.36353E-06	10.45201982	10.68641681
<i>CSTA</i>	0.233838609	0.001300282	7.933710444	8.167549053
<i>APOBEC3B</i>	0.233762506	0.021462764	6.120736314	6.35449882
<i>CHPT1</i>	0.23326581	0.009418094	9.280687899	9.513953709
<i>RAB43</i>	0.233190713	2.83191E-12	6.982598016	7.215788729
<i>PNPLA2</i>	0.232803163	0.000601121	8.552762616	8.785565779
<i>ITGB3</i>	0.231909808	0.01075074	7.411430041	7.643339849
<i>GLDC</i>	0.231848916	4.7588E-05	5.952594715	6.184443631
<i>STOM</i>	0.231362393	5.73057E-05	9.390632301	9.621994694
<i>FAM53C</i>	0.231281214	5.05803E-06	9.919431538	10.15071275
<i>STAT2</i>	0.230875883	2.75861E-05	9.630471591	9.861347474
<i>SFXN5</i>	0.230360911	8.10489E-11	6.656124652	6.886485563
<i>PGM1</i>	0.230346663	1.16687E-10	9.483879618	9.714226282
<i>TSHZ3</i>	0.230050865	5.07777E-06	7.361770091	7.591820956
<i>ASGR2</i>	0.229837568	4.04563E-05	7.492981594	7.722819161

<i>CD55</i>	0.229455362	7.84781E-05	9.719011138	9.9484665
<i>MBD6</i>	0.229286359	1.09681E-05	9.323803758	9.553090117
<i>PTGS1</i>	0.229272596	0.001130657	8.374188071	8.603460666
<i>ZAK</i>	0.227816997	6.66784E-06	6.883605545	7.111422542
<i>NMI</i>	0.227779416	7.83247E-06	9.276767606	9.504547022
<i>IFITM1</i>	0.227513922	0.000602682	12.04281738	12.2703313
<i>ECHDC3</i>	0.227412456	0.001476766	7.134415732	7.361828188
<i>ZMYND15</i>	0.22721012	2.11592E-06	6.264973165	6.492183286
<i>TAP2</i>	0.227131478	8.71906E-08	8.021784008	8.248915486
<i>TGM3</i>	0.226997781	0.003797595	7.124958851	7.351956632
<i>CDKN2D</i>	0.226882351	9.70568E-06	8.669324792	8.896207143
<i>SIRPA</i>	0.226730499	2.70593E-05	10.46699385	10.69372435
<i>C10orf11</i>	0.226575715	2.87887E-06	6.779267106	7.005842822
<i>IGF2BP2</i>	0.226547643	0.022783717	9.005534135	9.232081778
<i>SELP</i>	0.226509204	0.000758748	6.857295347	7.083804551
<i>FGD4</i>	0.226454424	1.01918E-08	6.425671185	6.652125609
<i>MIIP</i>	0.226415766	1.07791E-12	7.06685989	7.293275656
<i>TMEM86B</i>	0.226317311	0.003810261	7.85041515	8.076732461
<i>IL1RN</i>	0.225955258	0.000592211	7.963900529	8.189855787
<i>CKLF</i>	0.2258991	0.000242642	10.06542423	10.29132333
<i>CEBPA</i>	0.225684367	1.98663E-06	8.707206367	8.932890735
<i>POR</i>	0.22530413	9.2031E-08	7.674738357	7.900042487
<i>UBTD1</i>	0.224909401	2.07855E-08	7.169172809	7.39408221
<i>RBP7</i>	0.224853854	9.48989E-05	8.129456354	8.354310208
<i>AGTRAP</i>	0.224716207	4.76758E-07	8.745815298	8.970531505
<i>DGCR2</i>	0.223876465	2.27837E-11	8.360729649	8.584606113
<i>HK2</i>	0.223867526	3.70653E-08	7.803386854	8.02725438
<i>NLRX1</i>	0.223642996	1.53306E-10	7.471836201	7.695479198
<i>PDLIM7</i>	0.2235848	1.27336E-05	7.582740938	7.806325738
<i>PYCARD</i>	0.223430469	2.72716E-06	10.13620755	10.35963802
<i>BTNL8</i>	0.223424557	0.028821051	6.91293855	7.136363107
<i>PRAMI</i>	0.222959889	4.78291E-07	8.719995457	8.942955346
<i>NAMPT</i>	0.222868235	0.009062397	11.24971146	11.4725797
<i>ARL11</i>	0.222616409	5.27271E-11	6.421099929	6.643716338
<i>EMR2</i>	0.222609876	0.002517131	9.357994923	9.580604798
<i>STAT5A</i>	0.222532619	2.85086E-09	9.534992251	9.75752487
<i>FYB</i>	0.222495845	1.08471E-07	9.969893629	10.19238947
<i>LMTK2</i>	0.222317465	3.37212E-11	6.839100035	7.0614175
<i>LAP3</i>	0.222287508	0.00471039	9.371755938	9.594043446
<i>IFNAR1</i>	0.22157528	1.04847E-06	8.958712438	9.180287718
<i>SLC19A1</i>	0.22082046	6.56703E-08	7.288917188	7.509737648
<i>B4GALT5</i>	0.220492376	0.000976513	10.42835563	10.64884801
<i>RARA</i>	0.220249707	6.53835E-09	7.79044076	8.010690467
<i>TACC3</i>	0.220157495	3.41803E-09	8.912670611	9.132828107
<i>GPR160</i>	0.220149682	0.001767218	7.539515636	7.759665318
<i>MSL1</i>	0.220012304	2.32537E-06	8.394850472	8.614862776
<i>C9orf72</i>	0.219815956	4.41605E-06	7.293757105	7.513573061
<i>PRRG4</i>	0.219553597	0.000579664	7.416421627	7.635975224
<i>CTRL</i>	0.219512393	1.02908E-08	7.00033093	7.219843323
<i>CDA</i>	0.21946865	0.003721346	9.218324119	9.437792769
<i>SLC7A5</i>	0.219282427	0.011562903	8.30512201	8.524404437
<i>TIFA</i>	0.219042927	1.84532E-06	6.734918692	6.953961619
<i>CASP1</i>	0.218752092	2.58855E-06	9.890336459	10.10908855
<i>YOD1</i>	0.218716212	0.014585472	7.675039664	7.893755876
<i>PRMT5</i>	0.218676644	2.67003E-11	7.967532457	8.186209101
<i>MOSPD2</i>	0.218594227	1.05967E-05	8.300111377	8.518705604
<i>CTNNAL1</i>	0.218547484	0.005727667	6.818207887	7.036755371
<i>NRN1</i>	0.21839308	2.66154E-05	5.685115831	5.903508912
<i>VSTM1</i>	0.218305135	0.001007479	7.465160907	7.683466042

<i>CREG1</i>	0.217945407	0.003736156	9.6919917	9.909937107
<i>ANKRD9</i>	0.217938498	0.007776263	7.191788314	7.409726812
<i>CASP4</i>	0.217892445	7.96491E-08	9.370429461	9.588321906
<i>EDEM2</i>	0.217812517	1.0492E-13	8.711712303	8.92952482
<i>RENBP</i>	0.217547704	6.412E-08	7.585107045	7.802654748
<i>KEL</i>	0.216790048	0.005626521	6.57230625	6.789096298
<i>RBM47</i>	0.216771423	0.000221541	9.53529434	9.752065763
<i>CLEC1A</i>	0.216719504	2.8057E-07	5.997889632	6.214609136
<i>S100A9</i>	0.216655922	0.000428399	12.94035263	13.15700855
<i>FGF13</i>	0.216475875	0.000166382	5.689300002	5.905775876
<i>TBC1D8</i>	0.216271548	3.58512E-05	7.418300941	7.634572489
<i>IQSEC1</i>	0.216051786	6.36222E-09	9.497290639	9.713342425
<i>FERMT3</i>	0.215700632	4.36235E-09	9.750712184	9.966412817
<i>PABPC1L</i>	0.215521502	2.95179E-06	7.381833612	7.597355114
<i>PHGDH</i>	0.215515746	2.86183E-06	7.316465352	7.531981099
<i>NFIX</i>	0.215327007	0.008874065	7.024515737	7.239842744
<i>TRIM21</i>	0.21479357	8.15498E-07	8.941502694	9.156296264
<i>HLX</i>	0.214112928	7.68158E-05	8.228394678	8.442507606
<i>PHKA2</i>	0.214033343	4.14702E-08	8.077947829	8.291981172
<i>CTSZ</i>	0.214018383	1.27928E-05	9.130035652	9.344054035
<i>SULT1B1</i>	0.213839957	0.00080621	7.640038004	7.853877961
<i>MEF2A</i>	0.2136289	2.17251E-12	7.044899004	7.258527904
<i>SH2B2</i>	0.213318558	1.42284E-09	6.956366811	7.169685369
<i>PDK3</i>	0.212848667	2.29475E-08	8.104521921	8.317370588
<i>PPP1R3D</i>	0.212746084	5.58187E-08	7.973823745	8.186569829
<i>SAMSN1</i>	0.212716124	0.000489088	7.621722544	7.834438668
<i>CTSD</i>	0.212680504	0.000134962	9.076461032	9.289141537
<i>PPP1R14B</i>	0.212579746	2.29475E-08	8.531136318	8.743716063
<i>NFKBIZ</i>	0.212254159	2.32853E-05	9.124201147	9.336455306
<i>LRRK2</i>	0.212248642	0.00061907	9.11529182	9.327540462
<i>RAB20</i>	0.212220869	5.56766E-07	6.55333789	6.765558759
<i>GRK6</i>	0.21218701	3.29152E-11	8.259551202	8.471738212
<i>CEBPE</i>	0.212052537	2.70593E-05	6.660033682	6.872086219
<i>OSBPL1A</i>	0.211822433	2.76414E-07	6.705589632	6.917412065
<i>CECR6</i>	0.211817866	0.000164347	7.472230252	7.684048118
<i>OASL</i>	0.211744819	0.007495727	7.951425733	8.163170552
<i>TK1</i>	0.211613542	1.68402E-07	6.403318875	6.614932418
<i>HIST1H2BG</i>	0.211360486	0.001116011	6.701546352	6.912906839
<i>GNB2</i>	0.21120182	8.67945E-07	8.366968	8.57816982
<i>ACSL4</i>	0.210966056	2.49418E-06	7.591789916	7.802755973
<i>IRF9</i>	0.210780407	2.3878E-07	10.16856378	10.37934419
<i>SLC22A16</i>	0.210691587	6.83508E-05	6.027534107	6.238225694
<i>PFKFB2</i>	0.210653111	1.71412E-05	6.222337044	6.432990155
<i>ITGAX</i>	0.210476282	0.000219154	8.69682011	8.907296392
<i>BAK1</i>	0.210227245	8.23688E-10	7.479251616	7.689478861
<i>GNS</i>	0.210098635	6.0274E-05	10.83291808	11.04301671
<i>CDCA5</i>	0.209798605	9.69097E-06	6.323701065	6.533499671
<i>ODF3B</i>	0.20973088	9.53729E-09	6.762372438	6.972103318
<i>PGM2</i>	0.209693555	3.30573E-07	8.004896979	8.214590535
<i>ITPRIP</i>	0.209425592	2.91968E-06	9.43019469	9.639620282
<i>RNF135</i>	0.209282414	1.06544E-10	7.841955525	8.051237939
<i>CAPN1</i>	0.208921468	1.91972E-08	9.166427531	9.375348999
<i>ASAP1</i>	0.208875464	3.12186E-05	9.840010889	10.04888635
<i>CARD6</i>	0.208810686	4.51965E-06	7.230250324	7.439061009
<i>CYP4F12</i>	0.208790338	9.52398E-07	5.893335379	6.102125717
<i>UBE2L6</i>	0.208558961	0.000104184	10.26813596	10.47669492
<i>OLAH</i>	0.208391096	0.003783536	5.331893853	5.540284949
<i>PNPLA6</i>	0.208302263	1.51752E-07	8.783386023	8.991688285
<i>ACTA2</i>	0.208207711	0.000528749	7.378450075	7.586657785

<i>TPD52L2</i>	0.208119821	1.76853E-08	9.787112241	9.995232062
<i>MTMR3</i>	0.207613366	2.8644E-06	8.519955077	8.727568443
<i>GNAI5</i>	0.207483711	6.80875E-06	8.31946452	8.526948231
<i>ETV6</i>	0.207214962	7.79553E-11	8.834188173	9.041403135
<i>ARHGAP27</i>	0.20719103	1.60677E-08	7.38336774	7.59055877
<i>CDKN1A</i>	0.2071869	0.000327644	8.511614066	8.718800966
<i>AFF1</i>	0.207148159	1.7183E-06	7.899643008	8.106791167
<i>STK3</i>	0.207007746	4.31529E-06	7.018318279	7.225326025
<i>ANKRD55</i>	0.206895439	0.000669992	7.06847083	7.275366269
<i>PTPRE</i>	0.206568425	1.33676E-07	8.816576102	9.023144526
<i>DOK4</i>	0.20645963	2.27923E-09	6.169923737	6.376383367
<i>CLEC12B</i>	0.206065685	0.000199805	5.80228349	6.008349175
<i>CIQC</i>	0.205899619	0.001149215	5.854644979	6.060544598
<i>ETS2</i>	0.205718491	0.000334123	8.480546147	8.686264638
<i>APOL1</i>	0.205600395	5.85721E-07	6.893338533	7.098938928
<i>PLOD1</i>	0.20552123	2.32537E-06	8.77390958	8.97943081
<i>LPCAT3</i>	0.204566006	2.23823E-08	8.329579474	8.53414548
<i>INSL3</i>	0.204267143	9.15391E-07	6.528575303	6.732842446
<i>APOL6</i>	0.204243581	8.82198E-06	7.206261019	7.4105046
<i>FAM8A1</i>	0.203708421	3.80703E-06	8.889756555	9.093464976
<i>GAA</i>	0.203429474	1.88959E-06	7.793681525	7.997110998
<i>PPP1R3B</i>	0.202807787	3.06378E-07	6.841855903	7.04466369
<i>GAS7</i>	0.202690543	3.00239E-06	7.585111287	7.787801829
<i>DIRC2</i>	0.202590476	0.000169627	7.983986462	8.186576938
<i>EIF2AK1</i>	0.202103396	0.000466463	9.878167062	10.08027046
<i>CYBA</i>	0.201999878	0.000184964	10.92714409	11.12914396
<i>LY96</i>	0.201801821	0.035803601	9.359089679	9.5608915
<i>TM6SF1</i>	0.201510237	0.001565774	8.447061945	8.648572182
<i>MSL3</i>	0.201355408	3.40118E-08	8.119073139	8.320428547
<i>H2AFJ</i>	0.201338539	0.000172431	7.765282144	7.966620684
<i>AQP10</i>	0.201310743	0.011087692	6.511305214	6.712615957
<i>CLIC1</i>	0.201171947	5.95797E-07	11.5986506	11.79982255
<i>LILRB4</i>	0.200990968	2.03603E-07	6.438167026	6.639157994
<i>CCNJL</i>	0.200806776	0.002677591	8.147766299	8.348573075
<i>NTNG2</i>	0.20070778	2.40783E-08	7.30385457	7.50456235

Supplementary Table S2. Downregulated genes in Crohn's disease.

Gene	logFC	adj.P.Val	Mean expression in controls	Mean expression in CD patients
<i>GNLY</i>	-0.657279174	1.00547E-08	10.6946354	10.03735623
<i>KLRF1</i>	-0.64459392	3.226E-11	8.23665076	7.59205684
<i>GZMK</i>	-0.642536978	9.71267E-12	9.907031269	9.264494292
<i>CD160</i>	-0.548781676	1.89653E-10	7.758430009	7.209648333
<i>KLRD1</i>	-0.489860798	8.03303E-09	8.49240285	8.002542052
<i>FGFBP2</i>	-0.475577071	0.00014462	9.389139128	8.913562057
<i>PTGDS</i>	-0.470013207	1.22668E-11	7.711196531	7.241183324
<i>PRF1</i>	-0.46770428	4.95026E-08	10.40708561	9.939381327
<i>KLRG1</i>	-0.461901435	4.6463E-09	8.456951263	7.995049828
<i>CTSW</i>	-0.449970277	2.40349E-11	9.23189858	8.781928303
<i>KLRB1</i>	-0.438983875	3.11643E-08	10.34694654	9.907962662
<i>SH2D1B</i>	-0.435826689	1.40855E-09	7.447422982	7.011596293
<i>CCL3</i>	-0.41920503	3.05944E-07	7.310466509	6.891261479
<i>GZMA</i>	-0.412585983	1.58946E-05	10.09432594	9.681739955
<i>NKG7</i>	-0.392458938	1.63302E-05	11.58810348	11.19564454
<i>IL2RB</i>	-0.389274601	7.70316E-07	10.11638961	9.727115007
<i>NELL2</i>	-0.378952639	5.2503E-06	9.519934038	9.140981399
<i>FCRLA</i>	-0.376014601	2.91646E-05	8.32926193	7.953247329
<i>TGFBR3</i>	-0.360344717	5.9639E-06	8.70914557	8.348800852
<i>P2RY10</i>	-0.359743403	2.95089E-11	7.842649038	7.482905635
<i>TSPAN13</i>	-0.354279855	6.13986E-10	7.811237897	7.456958043
<i>IL7R</i>	-0.352579609	3.60523E-06	11.85845342	11.50587381
<i>EOMES</i>	-0.337413375	2.14934E-06	9.502013988	9.164600613
<i>CD3E</i>	-0.336240901	1.97952E-07	8.852528321	8.51628742
<i>AKRIC3</i>	-0.335525168	2.5844E-05	7.842526254	7.507001086
<i>CLIC3</i>	-0.333129288	9.76111E-06	7.959858712	7.626729424
<i>GPR183</i>	-0.32730621	6.56957E-14	8.048560943	7.721254733
<i>CCR3</i>	-0.322578508	0.000219201	7.791092488	7.46851398
<i>CD69</i>	-0.313350996	1.70276E-07	8.326335599	8.012984603
<i>FAIM3</i>	-0.31145541	6.2939E-06	10.66272421	10.3512688
<i>PTGDR</i>	-0.31075713	1.23198E-07	7.443450309	7.132693179
<i>CD2</i>	-0.309844757	1.28511E-06	10.61316112	10.30331636
<i>CD96</i>	-0.309474638	3.06895E-07	9.073561077	8.764086439
<i>LAIR2</i>	-0.307186662	7.09103E-05	7.323675285	7.016488622
<i>RPL14</i>	-0.305673019	5.9926E-07	10.21741908	9.911746066
<i>MCOLN2</i>	-0.304808004	1.06179E-08	7.821073146	7.516265141
<i>KLRC3</i>	-0.302323344	3.63261E-06	6.720063406	6.417740061
<i>CA5B</i>	-0.295635769	7.94223E-11	7.59338578	7.297750011
<i>HLA-DOB</i>	-0.292549788	2.51474E-06	7.56509302	7.272543232
<i>ID3</i>	-0.289531625	2.28538E-06	7.844590767	7.555059142
<i>CHI3L1</i>	-0.28936919	0.00037875	7.868792769	7.579423579
<i>PYHIN1</i>	-0.287342699	2.28584E-06	8.300990681	8.013647982
<i>HLA-DQA1</i>	-0.284433947	0.006723794	9.724728109	9.440294161
<i>CDKN1C</i>	-0.283496353	3.47484E-06	7.572380021	7.288883669
<i>S1PR5</i>	-0.283095266	0.00020357	8.168966859	7.885871593
<i>RPS28</i>	-0.282592971	4.36201E-05	11.33465859	11.05206562
<i>IL32</i>	-0.280597566	3.64049E-05	9.891016147	9.610418581
<i>MPZL1</i>	-0.280085012	3.51919E-07	7.558497218	7.278412206
<i>AUTS2</i>	-0.278873281	7.23427E-09	7.561458138	7.282584858
<i>MYOM2</i>	-0.278502764	0.009702629	7.345983597	7.067480833
<i>TARP</i>	-0.277695039	0.000140081	8.312093786	8.034398747
<i>RASGRP1</i>	-0.274223686	1.26012E-06	9.770539584	9.496315897
<i>CD247</i>	-0.274219514	1.79419E-05	10.98325178	10.70903227
<i>IFFO2</i>	-0.273300968	4.76451E-10	7.052705213	6.779404244
<i>GPR56</i>	-0.272878052	0.005221486	8.779698334	8.506820282
<i>GRAMD1C</i>	-0.271826612	3.31113E-05	6.439380764	6.167554153

<i>SKAP1</i>	-0.271388695	8.16657E-07	9.091830243	8.820441548
<i>PRSS23</i>	-0.270463772	1.5493E-06	6.51898955	6.248525777
<i>RPL21</i>	-0.269743103	0.000105421	11.60423728	11.33449418
<i>ETS1</i>	-0.267957633	2.57927E-05	10.96969108	10.70173345
<i>FCRL3</i>	-0.267755617	1.20138E-05	8.023676735	7.755921118
<i>CHST7</i>	-0.266684312	8.7045E-08	8.538227044	8.271542732
<i>PLEKHA1</i>	-0.266576223	6.23606E-07	8.74045332	8.473877096
<i>VPREB3</i>	-0.264815993	0.00424279	7.582224263	7.31740827
<i>NCR3</i>	-0.264692668	3.56274E-07	7.50649351	7.241800841
<i>MYBL1</i>	-0.264131306	6.16244E-06	7.656253717	7.392122411
<i>SLAMF6</i>	-0.263891638	4.47688E-07	9.328958041	9.065066403
<i>GATA3</i>	-0.262168265	5.07723E-09	7.630519094	7.368350829
<i>SPRYD3</i>	-0.26178624	0.000126778	9.736621085	9.474834845
<i>RPS23</i>	-0.261594503	0.001860427	9.937019623	9.675425121
<i>HOPX</i>	-0.258424775	3.82474E-07	7.072362809	6.813938034
<i>SPOCK2</i>	-0.257550305	0.000135757	10.79681	10.53925969
<i>RPL9</i>	-0.257284783	7.15357E-05	11.6460882	11.38880342
<i>SAMD3</i>	-0.256132087	1.71079E-05	8.175052023	7.918919935
<i>CD8A</i>	-0.255752255	0.001056067	10.15692012	9.901167868
<i>RNF125</i>	-0.254819066	2.04375E-11	7.946358499	7.691539433
<i>SH2D1A</i>	-0.254192033	3.26001E-05	8.852347232	8.598155199
<i>ZNF831</i>	-0.253150067	3.56274E-07	7.326550524	7.073400457
<i>SIPR1</i>	-0.252182481	5.9202E-06	9.086815035	8.834632555
<i>CCL4</i>	-0.251761558	1.01307E-05	6.899969901	6.648208342
<i>RFTN1</i>	-0.251596595	3.76704E-08	9.038212533	8.786615938
<i>ID2</i>	-0.249737723	5.73434E-07	9.611190037	9.361452315
<i>FCERIA</i>	-0.24939418	0.0114218	8.418384059	8.168989878
<i>SYTL2</i>	-0.24837492	2.04201E-06	7.07508954	6.82671462
<i>EBF1</i>	-0.247194399	7.70932E-06	6.888290207	6.641095808
<i>HSP90AB1</i>	-0.246148737	9.5242E-07	10.13324655	9.887097817
<i>SSBP1</i>	-0.245870926	1.06002E-07	9.136476773	8.890605847
<i>GLOD4</i>	-0.243261937	5.09776E-08	8.962165235	8.718903298
<i>BTLA</i>	-0.242725474	5.60169E-06	7.814567435	7.571841961
<i>STAT4</i>	-0.242100793	4.37027E-05	9.774462903	9.53236211
<i>PTMA</i>	-0.241299424	0.000637187	10.37547467	10.13417525
<i>NOP58</i>	-0.241243535	5.37757E-08	9.371342682	9.130099146
<i>PASK</i>	-0.240246119	2.62848E-06	8.127621745	7.887375626
<i>CD3G</i>	-0.240222127	0.000111935	8.993425592	8.753203465
<i>CCND2</i>	-0.239309613	3.37103E-05	9.735251061	9.495941448
<i>ZNF792</i>	-0.238487861	1.36007E-08	7.236228655	6.997740793
<i>FCER2</i>	-0.238195945	0.000503267	7.086597376	6.848401432
<i>NMT2</i>	-0.236683937	5.00314E-06	7.585102519	7.348418582
<i>HLA-DPA1</i>	-0.236585871	0.001789381	11.80595714	11.56937127
<i>LSM5</i>	-0.235582873	2.4861E-05	7.696933159	7.461350287
<i>ZMYM6</i>	-0.235534758	3.26942E-11	7.896991879	7.661457121
<i>PTGS2</i>	-0.234039394	0.019895137	8.603039734	8.36900034
<i>CLEC2D</i>	-0.233534318	1.22859E-05	9.571725997	9.338191679
<i>LDHB</i>	-0.231917301	0.000435934	11.25530692	11.02338962
<i>NUCKS1</i>	-0.231125183	2.03272E-07	9.211769656	8.980644474
<i>PVRIG</i>	-0.230446995	0.000201823	9.088189129	8.857742134
<i>LDOC1</i>	-0.230420529	2.85877E-08	6.897820862	6.667400333
<i>CD79A</i>	-0.228759389	0.003795061	8.872921192	8.644161803
<i>S100A10</i>	-0.228077695	2.39221E-06	11.69800773	11.46993003
<i>RPS27</i>	-0.226609263	4.53822E-05	12.1853479	11.95873864
<i>MTSS1</i>	-0.226467728	2.75964E-09	8.10336469	7.876896962
<i>EIF3A</i>	-0.225560818	1.39289E-08	9.483552272	9.257991453
<i>CD3D</i>	-0.225213976	0.000751585	10.3897971	10.16458312
<i>TYW1</i>	-0.224970817	0.000282568	8.058346642	7.833375825
<i>GPR18</i>	-0.224765164	0.000123827	8.442650311	8.217885146

<i>HSPH1</i>	-0.222742959	1.9353E-05	8.856136075	8.633393116
<i>API5</i>	-0.221629073	1.65261E-07	8.279637222	8.058008149
<i>CRYZ</i>	-0.22141474	0.000192092	8.125989645	7.904574905
<i>CCR7</i>	-0.221316693	0.020330503	10.86227183	10.64095514
<i>BCL11A</i>	-0.221175434	5.75532E-07	8.101942862	7.880767429
<i>USP11</i>	-0.220974421	1.08603E-08	8.218739207	7.997764786
<i>NCALD</i>	-0.220479504	3.57465E-06	7.091908785	6.871429282
<i>RPS4X</i>	-0.220126376	2.75747E-07	12.74326541	12.52313904
<i>TSPYL1</i>	-0.219801937	2.66728E-13	8.383135127	8.16333319
<i>G3BP1</i>	-0.21937783	4.38983E-07	8.008578754	7.789200924
<i>ADRB2</i>	-0.219366009	8.76573E-07	8.903860282	8.684494273
<i>NR3C2</i>	-0.218991869	2.0893E-07	7.262218132	7.043226263
<i>COX7B</i>	-0.218434445	0.001243878	8.245802304	8.027367859
<i>MEX3C</i>	-0.218031655	1.29561E-10	7.458556108	7.240524453
<i>CD40LG</i>	-0.217994607	9.606E-05	7.126630124	6.908635517
<i>ITK</i>	-0.217411123	0.000697552	10.54877306	10.33136194
<i>C8orf59</i>	-0.21612944	0.000398346	8.338626791	8.122497351
<i>PPIH</i>	-0.215929443	4.61398E-07	8.676831717	8.460902274
<i>CD4</i>	-0.215843533	3.01079E-05	7.835288147	7.619444614
<i>OSBPL10</i>	-0.215512307	1.00106E-05	6.789362493	6.573850186
<i>KIAA0355</i>	-0.215192337	1.09528E-08	8.604726028	8.38953369
<i>PRKCH</i>	-0.214799149	0.000747434	9.903894614	9.689095465
<i>PCID2</i>	-0.214776333	1.17997E-08	9.408071255	9.193294922
<i>INPP4B</i>	-0.214552709	9.23357E-06	7.323063626	7.108510917
<i>PPP3CC</i>	-0.214393751	1.57406E-06	8.29599511	8.081601359
<i>C12orf57</i>	-0.21386543	0.004662457	9.700642418	9.486776988
<i>WBP11</i>	-0.213479916	2.04175E-10	8.434535062	8.221055146
<i>SLAIN1</i>	-0.213185035	5.14355E-07	7.253932193	7.040747158
<i>KIAA1147</i>	-0.213048784	1.57406E-06	8.39028428	8.177235496
<i>SNRPA1</i>	-0.213025283	2.18858E-08	9.19162678	8.978601498
<i>KLRC1</i>	-0.212816324	0.002059982	7.143963158	6.931146834
<i>TMEM14A</i>	-0.212142194	3.52811E-08	7.185906008	6.973763814
<i>CXCR3</i>	-0.212017203	0.000139578	7.719301387	7.507284184
<i>ITM2A</i>	-0.211469877	0.000215426	9.244677305	9.033207428
<i>KLF12</i>	-0.211034095	3.9719E-06	7.521106548	7.310072453
<i>EIF3H</i>	-0.210978587	1.3756E-07	10.15775928	9.946780693
<i>BCL11B</i>	-0.210533981	0.001135313	8.975532589	8.764998608
<i>RPL5</i>	-0.210245451	2.69256E-05	10.99686955	10.7866241
<i>WDR82</i>	-0.20934322	6.16244E-06	10.73166458	10.52232136
<i>CCDC65</i>	-0.20924731	2.88298E-07	6.357679344	6.148432034
<i>DENND2D</i>	-0.209078144	4.40708E-05	9.979207374	9.770129229
<i>FASLG</i>	-0.208369374	0.000129953	6.798115478	6.589746104
<i>SLC38A1</i>	-0.207882549	0.000108394	9.116631502	8.908748953
<i>MYC</i>	-0.20775011	0.00260295	9.198143207	8.990393097
<i>CCDC58</i>	-0.207628469	3.09573E-06	7.107056485	6.899428016
<i>DDIT4</i>	-0.206899316	0.000509708	9.453006174	9.246106858
<i>WDR54</i>	-0.206656945	1.26914E-05	8.533916935	8.32725999
<i>CBLB</i>	-0.206547234	1.00765E-05	8.328849408	8.122302173
<i>KIR2DL1</i>	-0.206505576	0.00234986	6.834243328	6.627737753
<i>RPS20</i>	-0.206362064	2.45911E-07	12.33799604	12.13163398
<i>FYN</i>	-0.205718706	1.97933E-08	9.631033063	9.425314357
<i>DDX24</i>	-0.205615369	2.15786E-06	9.59907053	9.393455161
<i>FRG1</i>	-0.205613791	3.78426E-05	8.724795137	8.519181346
<i>CLNS1A</i>	-0.20475331	2.16836E-05	9.391337483	9.186584173
<i>EIF1AX</i>	-0.204638135	1.27233E-05	7.949247445	7.74460931
<i>RFX7</i>	-0.204536619	5.1593E-07	8.387189511	8.182652891
<i>OCIAD2</i>	-0.20367565	0.000534644	8.813948295	8.610272645
<i>TTC27</i>	-0.20287305	8.24237E-07	7.559846964	7.356973913
<i>RRN3</i>	-0.202667538	3.68897E-07	8.299957865	8.097290327

<i>INTS2</i>	-0.202474429	1.56028E-07	7.63270382	7.430229391
<i>ABHD14A</i>	-0.201549183	3.60934E-06	7.597167663	7.39561848
<i>CLECL1</i>	-0.20145319	7.17514E-05	6.369585469	6.168132279
<i>SH3YL1</i>	-0.201157974	8.0914E-06	7.139785556	6.938627582
<i>ZNF329</i>	-0.200694595	1.97952E-07	7.307791008	7.107096413
<i>PTS</i>	-0.200658404	1.14013E-08	7.303407842	7.102749438
<i>HDDC2</i>	-0.200405279	0.000107567	8.850620047	8.650214769
<i>RPL15</i>	-0.200313137	0.00032548	11.30178073	11.10146759
<i>TRMT112</i>	-0.200162931	3.38004E-05	10.5678652	10.36770227

Supplementary Table S3. Upregulated genes in ulcerative colitis.

Gene	logFC	adj.P.Val	Mean expression in controls	Mean expression in UC patients
<i>CD177</i>	0.876873436	1.44575E-08	6.07250708	6.949380515
<i>MMP9</i>	0.789963649	1.68575E-07	10.02939013	10.81935378
<i>HP</i>	0.772634969	1.65415E-09	6.785310025	7.557944994
<i>ALPL</i>	0.769651828	1.03719E-09	9.958293905	10.72794573
<i>ANXA3</i>	0.760540818	3.61112E-09	8.125749632	8.886290451
<i>SLC26A8</i>	0.685183954	3.55676E-15	6.568113749	7.253297704
<i>TLR5</i>	0.627027966	1.69249E-11	8.263478218	8.890506184
<i>DYSF</i>	0.623399204	1.34264E-10	10.18725725	10.81065645
<i>SI00A12</i>	0.620630753	0.000127779	9.975468796	10.59609955
<i>IGJ</i>	0.599672304	5.53054E-05	9.106085538	9.705757842
<i>F5</i>	0.596053766	5.09888E-10	8.193440198	8.789493964
<i>FCGRIA</i>	0.580933093	3.17277E-07	8.131961117	8.71289421
<i>PGLYRP1</i>	0.579669792	1.24496E-07	8.590944298	9.17061409
<i>CA4</i>	0.568802649	1.42565E-08	7.982965327	8.551767976
<i>TNFRSF17</i>	0.556537907	2.18903E-07	6.564834528	7.121372435
<i>HK3</i>	0.555765166	1.62366E-11	8.657058716	9.212823882
<i>GYG1</i>	0.536490886	6.11628E-09	9.871870517	10.4083614
<i>PFKFB3</i>	0.530196986	5.54491E-09	9.582449998	10.11264698
<i>GPR97</i>	0.528916663	1.69249E-11	7.902093043	8.431009707
<i>ANKRD22</i>	0.526956397	1.14577E-05	6.840863036	7.367819433
<i>OLFM4</i>	0.516157983	0.000808969	6.369860154	6.886018138
<i>IL4R</i>	0.505359189	1.95732E-15	9.157573814	9.662933003
<i>ARG1</i>	0.49620529	0.000107605	6.467726472	6.963931763
<i>ADM</i>	0.487341462	4.95035E-07	9.951953946	10.43929541
<i>CST7</i>	0.482915268	1.46094E-07	10.46708295	10.94999822
<i>IL18RAP</i>	0.473636837	1.31528E-05	10.24726668	10.72090352
<i>MMP8</i>	0.472457915	0.000204002	5.477095233	5.949553148
<i>FCGRIIB</i>	0.465278686	4.6122E-06	7.888073577	8.353352263
<i>LTF</i>	0.464132298	0.000679757	7.321396557	7.785528855
<i>GALNT14</i>	0.457227886	3.83077E-12	6.288717116	6.745945002
<i>SLC37A3</i>	0.456243701	1.91794E-11	7.566352627	8.022596328
<i>KCNJ15</i>	0.454689946	9.55032E-10	7.972306456	8.426996402
<i>GPR84</i>	0.454623153	3.63142E-05	6.472789294	6.927412446
<i>MCTP2</i>	0.454308688	3.51708E-11	7.784348385	8.238657073
<i>NQO2</i>	0.448822325	5.88705E-07	8.444110522	8.892932848
<i>PYGL</i>	0.448099824	9.72379E-09	10.55706083	11.00516065
<i>RAP1GAP</i>	0.446396515	0.022193981	6.950829305	7.397225821
<i>IL18R1</i>	0.445524977	2.55347E-06	8.059171477	8.504696454
<i>ORM1</i>	0.442353108	0.000942118	7.440149376	7.882502485
<i>SRPK1</i>	0.438107302	2.66729E-11	8.898342891	9.336450193
<i>NCF4</i>	0.437260302	1.69249E-11	9.884838122	10.32209842
<i>AIM2</i>	0.432280331	5.4121E-08	7.956836702	8.389117034
<i>LILRA5</i>	0.424536712	1.79745E-06	8.354118687	8.778655399
<i>CD38</i>	0.423254654	3.17277E-07	7.20179077	7.625045425
<i>LMNB1</i>	0.423157123	1.24496E-07	8.427830474	8.850987597
<i>MAPK14</i>	0.421593012	7.56556E-13	7.740514768	8.16210778
<i>PROK2</i>	0.420877821	3.9668E-05	10.68359468	11.1044725
<i>TDRD9</i>	0.417822893	8.80947E-07	6.346669074	6.764491967
<i>OPLAH</i>	0.417184879	4.95911E-09	6.382304879	6.799489758
<i>PGS1</i>	0.410643038	1.49663E-09	8.923383007	9.334026045
<i>ITGAM</i>	0.409756277	4.92859E-08	10.12932605	10.53908232
<i>ROPN1L</i>	0.40356398	1.0213E-06	7.698934839	8.102498818
<i>ZDHHC19</i>	0.403439877	0.000251178	6.468977099	6.872416976
<i>PADI4</i>	0.403283445	0.000192804	9.508143594	9.911427039
<i>ALOX5</i>	0.40293372	3.09483E-10	9.813512016	10.21644574
<i>PGD</i>	0.396597531	1.34264E-10	9.798157043	10.19475457

<i>NLRC4</i>	0.39391055	2.67905E-07	7.442222912	7.836133462
<i>ACSL1</i>	0.393697431	3.65216E-05	11.07606785	11.46976529
<i>NSUN7</i>	0.392862574	2.70738E-08	6.358838235	6.751700809
<i>CR1</i>	0.3890872	2.45655E-08	7.24722946	7.63631666
<i>FES</i>	0.388639705	4.31838E-09	8.776010839	9.164650544
<i>BCL6</i>	0.386924845	4.05327E-07	10.196683	10.58360785
<i>FLOT2</i>	0.386591051	1.603E-10	10.98229231	11.36888336
<i>DSC2</i>	0.383735673	1.99597E-06	7.128879515	7.512615188
<i>SEMA4A</i>	0.382417686	7.09912E-07	8.985379636	9.367797322
<i>ZNF438</i>	0.375359566	2.09E-09	7.354495773	7.729855339
<i>RGL4</i>	0.37487343	3.54277E-06	8.650230568	9.025103999
<i>SLC2A3</i>	0.372350882	1.78438E-07	11.76618566	12.13853654
<i>SIGLEC5</i>	0.372286702	3.46668E-07	8.073157291	8.445443993
<i>KREMEN1</i>	0.372211588	1.69249E-11	6.341041584	6.713253172
<i>LIMK2</i>	0.369918291	4.76789E-11	7.786082083	8.156000374
<i>FOLR3</i>	0.36905603	0.010654222	9.063981941	9.433037971
<i>SLC22A4</i>	0.366916761	8.23789E-05	8.169194021	8.536110782
<i>MMP25</i>	0.366549733	1.0387E-05	9.60002801	9.966577743
<i>OSM</i>	0.364642765	5.15621E-07	6.783064928	7.147707693
<i>EMR1</i>	0.361954317	1.07586E-06	7.965107948	8.327062266
<i>ALAS2</i>	0.360837094	0.000731335	10.55198248	10.91281958
<i>VNN1</i>	0.360416387	0.000437581	7.461649956	7.822066343
<i>CACNA1E</i>	0.359536073	1.15051E-09	5.74061142	6.100147493
<i>TLR8</i>	0.359494984	8.63562E-05	9.160627174	9.520122158
<i>SHKBP1</i>	0.359337405	1.49663E-09	8.769828384	9.129165788
<i>QPCT</i>	0.358446436	5.0582E-06	9.548193588	9.906640024
<i>DHRS13</i>	0.356694512	4.50156E-08	8.227994282	8.584688794
<i>NBEAL2</i>	0.354409078	1.59079E-10	8.384418006	8.738827084
<i>PHTF1</i>	0.351937218	1.66903E-09	7.34051662	7.692453837
<i>SLC9A8</i>	0.351861876	5.99275E-11	8.335170551	8.687032427
<i>NARF</i>	0.351454336	1.06081E-11	8.786423734	9.13787807
<i>ZNF467</i>	0.349783605	1.43137E-07	9.437153037	9.786936642
<i>ALPK1</i>	0.346017678	1.85767E-07	8.405522838	8.751540516
<i>BMX</i>	0.345138884	4.47804E-07	6.189094977	6.534233861
<i>SH3BP5L</i>	0.340174364	1.69249E-11	8.385706149	8.725880512
<i>HCK</i>	0.339134997	2.23671E-06	10.61321141	10.95234641
<i>CAMP</i>	0.33699352	0.003955915	8.815448239	9.152441759
<i>FLOT1</i>	0.334452142	2.43105E-06	9.412929514	9.747381655
<i>ENTPD1</i>	0.33201456	1.69889E-10	8.530765892	8.862780452
<i>MGAM</i>	0.331432129	5.27502E-05	8.280238722	8.611670851
<i>CLEC4D</i>	0.327729606	0.000637147	7.29097753	7.618707136
<i>NFE2</i>	0.32772697	6.64201E-06	10.82074242	11.14846939
<i>TRIM25</i>	0.324659117	4.87092E-08	9.160502763	9.48516188
<i>LTB4R</i>	0.323530634	1.9807E-08	7.691904578	8.015435213
<i>TKT</i>	0.322476756	1.54729E-08	11.03597882	11.35845558
<i>WIP1I</i>	0.320649712	6.2423E-07	8.017630674	8.338280386
<i>SLC11A1</i>	0.320093453	0.000115681	9.262345272	9.582438725
<i>SLC2A14</i>	0.318946532	5.15621E-07	8.315336049	8.634282581
<i>CDA</i>	0.314675767	0.000189084	9.218324119	9.532999886
<i>RRM2</i>	0.312007626	4.67161E-08	6.031715152	6.343722779
<i>ST3GAL4</i>	0.311264784	2.59647E-07	6.713910628	7.025175412
<i>SLC12A9</i>	0.311103681	6.10527E-08	9.05796393	9.369067611
<i>TMCO3</i>	0.310501963	9.47138E-08	7.494247563	7.804749527
<i>GLT1D1</i>	0.310108646	2.67905E-07	8.092159316	8.402267963
<i>TSPO</i>	0.309568703	5.35642E-08	10.79161228	11.10118098
<i>CLEC5A</i>	0.307302843	0.001074801	6.633761208	6.941064051
<i>BASPI1</i>	0.306188532	3.21517E-05	11.54734144	11.85352997
<i>IL1R2</i>	0.3052626	0.012491378	8.663068235	8.968330835
<i>LPAR2</i>	0.304085364	4.43208E-07	9.045355557	9.349440921

<i>DGAT2</i>	0.303562676	1.89295E-06	8.027332058	8.330894733
<i>CEACAMI</i>	0.303455592	0.000751594	7.745222219	8.048677812
<i>OLAH</i>	0.302851714	0.000751085	5.331893853	5.634745568
<i>HAUS4</i>	0.302844571	1.54729E-08	8.902346628	9.205191199
<i>GLDC</i>	0.30281081	1.47467E-05	5.952594715	6.255405525
<i>IMPDHI</i>	0.3011862	5.09888E-10	8.565631682	8.866817882
<i>FAM160A2</i>	0.301179459	1.61264E-10	8.302270485	8.603449944
<i>NLRP12</i>	0.300387914	6.2423E-07	8.615806304	8.916194218
<i>MKNK1</i>	0.300248346	1.46094E-07	8.592075648	8.892323995
<i>CIRL</i>	0.299154615	4.95911E-09	8.014612433	8.313767048
<i>PINK1</i>	0.297971297	5.64658E-05	9.03006312	9.328034417
<i>TCN1</i>	0.29769511	0.003740096	7.078883023	7.376578134
<i>OXER1</i>	0.297518427	2.09117E-10	7.104620788	7.402139215
<i>GBA</i>	0.297137136	1.34264E-10	8.214856958	8.511994094
<i>SBNO2</i>	0.296115686	2.39809E-07	7.739237612	8.035353298
<i>SLCO4C1</i>	0.294064347	2.67905E-07	6.920659077	7.214723425
<i>PSTPIP2</i>	0.292330946	0.000565769	8.917674192	9.210005138
<i>INSC</i>	0.291562969	2.06374E-06	5.911033244	6.202596213
<i>CDC20</i>	0.291149744	0.00047282	6.513446886	6.80459663
<i>LRG1</i>	0.290934244	0.001080502	8.857271309	9.148205553
<i>APOBEC3B</i>	0.290688217	0.010350519	6.120736314	6.411424532
<i>TGFA</i>	0.28999341	5.33046E-06	6.977355282	7.267348692
<i>STX3</i>	0.289402882	4.49407E-06	9.435470876	9.724873758
<i>P2RX1</i>	0.28807678	3.07288E-05	8.212461168	8.500537948
<i>SIPA1L2</i>	0.286440651	0.002169658	7.949583087	8.236023738
<i>CKAP4</i>	0.28582725	6.10413E-06	9.167124481	9.452951731
<i>VNN2</i>	0.283647384	0.000252949	11.06651024	11.35015763
<i>RAB24</i>	0.28363918	4.95911E-09	9.537403585	9.821042764
<i>FRAT2</i>	0.283582592	2.46544E-07	11.05266405	11.33624664
<i>TIMP2</i>	0.283502096	5.2229E-07	9.117527573	9.401029669
<i>HPSE</i>	0.283434775	0.000104418	7.941912521	8.225347296
<i>INPPL1</i>	0.28296292	1.54699E-08	8.533334068	8.816296988
<i>XK</i>	0.282917863	0.035480548	7.615993854	7.898911716
<i>PARP9</i>	0.282334319	4.42701E-05	9.341238827	9.623573146
<i>NLRX1</i>	0.281622571	1.69249E-11	7.471836201	7.753458772
<i>HSPA6</i>	0.281394474	1.80935E-05	9.794753252	10.07614773
<i>LRP10</i>	0.280855282	2.21131E-06	10.89610993	11.17696521
<i>S100A8</i>	0.280737542	0.000321918	12.68201687	12.96275441
<i>GADD45A</i>	0.280262214	0.003526562	7.831028056	8.111290269
<i>IL17RA</i>	0.278849001	1.99597E-06	9.565917394	9.844766396
<i>FAM46C</i>	0.278420935	0.049086069	10.79152658	11.06994751
<i>TSTA3</i>	0.277391345	0.013429649	8.283315407	8.560706752
<i>ABTB1</i>	0.277028039	3.3346E-06	9.480887714	9.757915753
<i>IRAK3</i>	0.27631415	0.002099181	8.425865648	8.702179798
<i>RGS19</i>	0.275084979	5.74064E-10	9.628814156	9.903899135
<i>TXN</i>	0.275049618	0.001643236	10.23163908	10.5066887
<i>UBXN2B</i>	0.274882212	1.21892E-06	8.794581978	9.06946419
<i>VSTMI</i>	0.273964486	0.00017883	7.465160907	7.739125393
<i>TLR4</i>	0.27371033	0.000130931	8.673845076	8.947555406
<i>LRPAP1</i>	0.272660018	1.89219E-08	7.855521526	8.128181544
<i>NAIP</i>	0.272145978	1.64506E-05	7.5811907	7.853336678
<i>BPI</i>	0.271879213	0.007158854	6.601172576	6.873051789
<i>LRRN1</i>	0.271860258	7.36963E-06	5.634193274	5.906053532
<i>MVP</i>	0.271700263	2.31231E-09	9.236772468	9.508472731
<i>SLC22A15</i>	0.271509094	0.000115034	7.576225576	7.84773467
<i>RALB</i>	0.270759496	2.31026E-05	10.31118286	10.58194236
<i>PFKFB2</i>	0.270386125	2.29263E-06	6.222337044	6.492723169
<i>PHF21A</i>	0.270159762	2.24117E-08	9.874458426	10.14461819
<i>STAT5B</i>	0.269939059	4.57226E-08	8.984594614	9.254533673

<i>TYMP</i>	0.269917458	7.36963E-06	8.434345535	8.704262993
<i>HK2</i>	0.269817845	1.44575E-08	7.803386854	8.073204699
<i>JAK2</i>	0.269483317	1.87255E-06	7.691497584	7.960980901
<i>TFDP1</i>	0.268856517	0.002838918	8.868586231	9.137442747
<i>PRKCD</i>	0.268771346	1.49304E-07	9.79139806	10.06016941
<i>SLC25A37</i>	0.268765574	0.001190386	11.72858283	11.9973484
<i>PGM1</i>	0.268181203	8.3549E-10	9.483879618	9.752060821
<i>PQLC1</i>	0.268120365	1.68122E-05	9.51189445	9.780014815
<i>AGPAT9</i>	0.267968767	0.000510484	9.224717315	9.492686082
<i>NFIL3</i>	0.267962696	0.00017113	9.307348772	9.575311468
<i>POR</i>	0.267528599	1.04077E-07	7.674738357	7.942266956
<i>C17orf62</i>	0.267060911	5.99275E-11	9.59852379	9.865584701
<i>GRN</i>	0.266710244	1.32828E-05	10.32002416	10.5867344
<i>IGLL1</i>	0.266272226	0.001939237	8.353194118	8.619466344
<i>TECPR2</i>	0.265602003	3.99337E-07	7.19127039	7.456872393
<i>GRAMD1A</i>	0.265242044	7.43131E-07	9.092860817	9.358102861
<i>CCDC88B</i>	0.265222499	6.66141E-09	7.934935893	8.200158391
<i>ACAA1</i>	0.263849123	1.86619E-11	8.802424626	9.066273749
<i>CREB5</i>	0.263780294	8.80998E-06	8.010162315	8.27394261
<i>FUT7</i>	0.26358641	5.79638E-07	6.7191998	6.982786211
<i>EIF4E3</i>	0.263480475	5.18528E-07	9.438572901	9.702053376
<i>APBB1IP</i>	0.262392353	4.58214E-08	9.988859958	10.25125231
<i>PLSCR1</i>	0.26165013	0.002553824	7.530979108	7.792629238
<i>PFKFB4</i>	0.26163934	0.000101239	9.105617224	9.367256565
<i>MPP1</i>	0.260761288	0.010654222	11.04650694	11.30726822
<i>DACHI</i>	0.260376542	3.34878E-08	5.739166733	5.999543274
<i>SAMSN1</i>	0.260356724	0.00017135	7.621722544	7.882079268
<i>FAM129A</i>	0.259219089	0.001380592	11.2607346	11.51995369
<i>KIF1B</i>	0.258944832	3.62128E-05	7.619858045	7.878802877
<i>GK</i>	0.258514355	0.001507171	8.929831224	9.188345578
<i>SLAH2</i>	0.25808497	0.028885776	8.881428443	9.139513413
<i>BATF2</i>	0.258007961	0.000442773	6.600992081	6.859000042
<i>DDAH2</i>	0.257804769	4.43208E-07	7.394274681	7.652079449
<i>GRINA</i>	0.257134226	0.001783652	8.93170942	9.188843646
<i>SOCS3</i>	0.257118387	2.46544E-07	6.770877981	7.027996369
<i>MYD88</i>	0.257012115	4.31064E-09	10.14308717	10.40009928
<i>MICAL1</i>	0.25558278	1.76314E-06	8.928162887	9.183745667
<i>TRPM6</i>	0.255084072	0.000101119	6.97350175	7.228585821
<i>C10orf54</i>	0.254726459	1.48805E-05	10.76834037	11.02306682
<i>GRB10</i>	0.254544997	1.89311E-05	6.407137027	6.661682024
<i>GPR160</i>	0.254297724	0.000800188	7.539515636	7.79381336
<i>CDCA5</i>	0.254257398	4.6122E-06	6.323701065	6.577958464
<i>MME</i>	0.254094585	0.000298688	9.020982412	9.275076997
<i>QSOX1</i>	0.25352592	1.87229E-07	7.574367307	7.827893228
<i>IFI35</i>	0.253121419	0.000760651	9.014895851	9.26801727
<i>BCL3</i>	0.252381825	6.51459E-06	8.638110164	8.890491989
<i>DNAJC5</i>	0.252178951	5.47229E-10	8.119979735	8.372158687
<i>MANSC1</i>	0.251951585	0.001929489	7.897228056	8.149179641
<i>ECHDC3</i>	0.251851601	0.00441294	7.134415732	7.386267333
<i>ANKRD9</i>	0.251632158	0.010807736	7.191788314	7.443420472
<i>TGM3</i>	0.251138159	0.004640986	7.124958851	7.376097011
<i>CD55</i>	0.250798359	5.90675E-05	9.719011138	9.969809497
<i>DENND3</i>	0.249673932	8.33919E-05	9.012021583	9.261695515
<i>SRXN1</i>	0.249439724	0.005512924	9.003116266	9.25255599
<i>MTMR3</i>	0.249109713	1.94054E-06	8.519955077	8.769064789
<i>SFXN5</i>	0.24903822	6.08776E-09	6.656124652	6.905162872
<i>TYMS</i>	0.248525334	0.000788784	6.497702657	6.746227991
<i>CDC34</i>	0.248436712	0.013482962	8.747516455	8.995953166
<i>CTSZ</i>	0.248013165	5.34807E-06	9.130035652	9.378048817

<i>PLXNC1</i>	0.247560986	0.000123436	8.181717457	8.429278443
<i>AQP9</i>	0.247286964	0.004158907	12.14680183	12.39408879
<i>OSCAR</i>	0.246983775	1.33735E-05	8.762808308	9.009792083
<i>NUCB1</i>	0.246829994	6.98012E-06	10.67978054	10.92661053
<i>TRIB1</i>	0.246540162	1.89311E-05	8.132097208	8.378637371
<i>GJB6</i>	0.244670774	1.31829E-06	5.523648723	5.768319497
<i>CD163</i>	0.244610942	0.001648656	8.08032622	8.324937162
<i>CRISPLD2</i>	0.244048305	0.001034067	9.222956937	9.467005242
<i>CBS</i>	0.244016107	0.000173569	6.453174996	6.697191103
<i>ADAM8</i>	0.243981239	7.93746E-06	9.086176161	9.3301574
<i>KLHL2</i>	0.243423481	0.000708328	8.895782057	9.139205538
<i>CYTH4</i>	0.242917925	1.54928E-06	9.877665984	10.12058391
<i>FKBP5</i>	0.242322065	0.01905276	10.0522086	10.29453067
<i>ATP9A</i>	0.241365481	0.002636895	6.780136499	7.02150198
<i>HK1</i>	0.241266071	8.84187E-05	9.411649976	9.652916048
<i>NLRC5</i>	0.241171252	1.58141E-08	8.6843662	8.925537452
<i>DOK3</i>	0.24112623	1.31528E-05	7.801933727	8.043059957
<i>DGCR2</i>	0.240746092	2.92144E-10	8.360729649	8.601475741
<i>SIPR4</i>	0.239933558	1.07161E-07	9.728773259	9.968706817
<i>VAV1</i>	0.239931084	4.62784E-06	9.176291842	9.416222926
<i>GRK6</i>	0.239878623	4.70613E-09	8.259551202	8.499429825
<i>NFIX</i>	0.239496478	0.025033648	7.024515737	7.264012215
<i>TMEM86B</i>	0.23907551	0.007752062	7.85041515	8.089490661
<i>GBGT1</i>	0.238714068	0.000133045	7.855549611	8.094263678
<i>PLEK2</i>	0.238197529	0.049279473	7.700346255	7.938543784
<i>NOD2</i>	0.23789994	0.000778966	8.5538458	8.79174574
<i>RAB43</i>	0.23758604	1.15051E-09	6.982598016	7.220184056
<i>SORT1</i>	0.23755616	0.000322261	7.91206157	8.14961773
<i>NADK</i>	0.236947169	5.07624E-05	9.31631851	9.553265679
<i>RNF10</i>	0.236591273	0.024514203	10.13385313	10.37044441
<i>B4GALT5</i>	0.235140457	0.001689724	10.42835563	10.66349609
<i>RBP7</i>	0.234893897	0.000216944	8.129456354	8.364350251
<i>LIN7A</i>	0.234717534	4.2858E-05	6.865950885	7.100668419
<i>RAB31</i>	0.234618344	0.000510484	11.05441178	11.28903012
<i>GPRC5D</i>	0.234524794	1.27588E-06	5.858048238	6.092573032
<i>PADI2</i>	0.233772109	5.53054E-05	7.237608	7.47138011
<i>TK1</i>	0.233682677	9.81714E-06	6.403318875	6.637001552
<i>PNPLA2</i>	0.233353122	0.005538219	8.552762616	8.786115738
<i>TAPI</i>	0.233150403	4.85224E-05	11.09313322	11.32628362
<i>SMARCD3</i>	0.233007087	8.3026E-09	6.852246957	7.085254044
<i>SLC7A5</i>	0.23293947	0.030628124	8.30512201	8.53806148
<i>LRRC6</i>	0.231877938	0.002807559	6.616973322	6.84885126
<i>DHRS12</i>	0.231367112	1.03987E-08	7.167581064	7.398948176
<i>MXD1</i>	0.230454244	0.00114685	11.1926036	11.42305785
<i>GCA</i>	0.230391166	0.001353797	11.48366986	11.71406102
<i>PPP1R3D</i>	0.230231154	2.95177E-07	7.973823745	8.204054899
<i>B3GNT8</i>	0.230092742	2.27397E-06	6.784633198	7.01472594
<i>SH3GLB1</i>	0.229498449	5.60153E-05	10.09594199	10.32544044
<i>IQSEC1</i>	0.228937822	4.50156E-08	9.497290639	9.726228461
<i>FAM126B</i>	0.228914974	0.000637254	8.33778984	8.566704814
<i>CMTM2</i>	0.228911724	0.012558841	9.98764059	10.21655231
<i>EIF4G3</i>	0.228726821	3.58934E-09	8.157885764	8.386612585
<i>GNG10</i>	0.228381182	0.005235527	9.797911574	10.02629276
<i>DOK4</i>	0.228285541	1.44575E-08	6.169923737	6.398209278
<i>IER3</i>	0.228255962	0.000741737	8.996133783	9.224389745
<i>FFAR2</i>	0.228130357	0.026679872	9.747138291	9.975268648
<i>RRBP1</i>	0.227895566	3.36184E-09	7.356689467	7.584585033
<i>RNF24</i>	0.227847206	0.000419696	9.761150278	9.988997484
<i>CDKN2D</i>	0.2275276	9.28186E-05	8.669324792	8.896852392

<i>FAM53C</i>	0.227308079	0.000124886	9.919431538	10.14673962
<i>CCL23</i>	0.227204795	0.003522873	5.551103638	5.778308433
<i>TREML2</i>	0.227180781	8.23789E-05	8.002757121	8.229937903
<i>PLB1</i>	0.226808131	2.57259E-05	6.32214376	6.548951891
<i>ABCA7</i>	0.226424311	1.33735E-05	7.542519536	7.768943847
<i>TMEM120A</i>	0.226224117	0.000126662	8.627300982	8.853525099
<i>CRISP3</i>	0.226110147	0.010053965	5.981985729	6.208095876
<i>FAM160B1</i>	0.224571413	7.78498E-09	7.920683421	8.145254835
<i>PNPLA6</i>	0.224232552	2.32358E-05	8.783386023	9.007618575
<i>FNDC3B</i>	0.224131101	0.000178212	8.58871031	8.812841411
<i>ATG16L2</i>	0.224004464	0.000906448	9.087841288	9.311845752
<i>MCOLN1</i>	0.223627983	0.012135676	8.482123643	8.705751626
<i>HPCAL1</i>	0.223627635	1.50755E-07	9.212876487	9.436504122
<i>NPEPL1</i>	0.223601938	7.68582E-06	8.574683184	8.798285122
<i>THOC5</i>	0.223063546	6.05197E-09	8.077836382	8.300899928
<i>SIGLEC9</i>	0.223049441	6.22556E-05	7.494431176	7.717480618
<i>PHKA2</i>	0.222926774	7.12324E-07	8.077947829	8.300874603
<i>ARHGAP4</i>	0.222762041	1.93211E-05	9.484257174	9.707019215
<i>ALDH2</i>	0.22254299	0.001469273	9.040690468	9.263233457
<i>STX10</i>	0.222520949	2.67905E-07	9.321152277	9.543673226
<i>CHPT1</i>	0.222431137	0.032541625	9.280687899	9.503119036
<i>TP53III1</i>	0.222391351	1.22296E-08	6.500116011	6.722507362
<i>ITM2C</i>	0.222153879	0.001324913	8.481427242	8.703581121
<i>CEBPE</i>	0.221870656	0.000352604	6.660033682	6.881904338
<i>TBC1D2</i>	0.22184574	8.38199E-05	7.687512572	7.909358312
<i>MYO1F</i>	0.221574849	0.00018589	9.77070526	9.992280108
<i>MYBPC3</i>	0.221390256	9.55142E-05	7.05870626	7.280096516
<i>PANX2</i>	0.220683845	0.001744333	8.249982803	8.470666647
<i>ARHGAP9</i>	0.22038498	1.51841E-06	10.81048635	11.03087133
<i>MSL1</i>	0.219656771	6.50802E-06	8.394850472	8.614507243
<i>LHFPL2</i>	0.219289603	0.01381404	7.909374853	8.128664456
<i>CYP4F12</i>	0.218698184	1.34625E-05	5.893335379	6.112033563
<i>G0S2</i>	0.217939336	0.001757239	6.514153031	6.732092368
<i>TOP2A</i>	0.217535995	0.00023466	5.725998429	5.943534424
<i>ITLN1</i>	0.217474908	0.04851368	6.412406837	6.629881745
<i>SCO2</i>	0.217452966	0.000686897	8.674233667	8.891686634
<i>TLR6</i>	0.217211171	0.000167063	8.381962345	8.599173516
<i>CCPG1</i>	0.217100044	8.03678E-05	8.406932447	8.624032491
<i>BST1</i>	0.216844606	0.000654153	8.45131377	8.668158376
<i>ZNF319</i>	0.216535456	7.62797E-07	8.283048618	8.499584074
<i>NAMPT</i>	0.21564015	0.023735926	11.24971146	11.46535161
<i>UPP1</i>	0.215569809	0.000268601	8.717320616	8.932890425
<i>RGS14</i>	0.215489915	3.36888E-09	7.624300967	7.839790882
<i>AMICA1</i>	0.21547747	2.44653E-06	11.71789612	11.93337359
<i>AGTRAP</i>	0.215382609	2.65047E-06	8.745815298	8.961197907
<i>ETS2</i>	0.214987623	0.001067384	8.480546147	8.69553377
<i>USF1</i>	0.2148271	4.66149E-06	7.692914807	7.907741908
<i>AGTPBP1</i>	0.213700338	3.17346E-05	8.849972861	9.063673199
<i>RHD</i>	0.213112564	0.003997057	6.160657601	6.373770165
<i>ZYX</i>	0.212986103	2.84706E-05	10.511117144	10.72415754
<i>TFF3</i>	0.212104054	0.000216864	6.149281099	6.361385152
<i>STX11</i>	0.211775297	0.000991323	9.647427951	9.859203247
<i>HIST2H2BE</i>	0.211455829	0.006878112	9.518582389	9.730038219
<i>CD24</i>	0.211379096	0.018236426	7.802791578	8.014170675
<i>DRAM1</i>	0.211328171	0.000655201	7.866775966	8.078104137
<i>TMEM2</i>	0.211291511	2.8924E-05	9.129770855	9.341062365
<i>IL1RN</i>	0.211134625	0.005558696	7.963900529	8.175035154
<i>KEL</i>	0.211034104	0.025700805	6.57230625	6.783340354
<i>CCNB2</i>	0.210894861	0.000401577	5.684816691	5.895711552

<i>ARID3A</i>	0.210331779	9.72092E-06	8.71671593	8.927047708
<i>CD274</i>	0.21010639	0.008062774	6.339293108	6.549399498
<i>LPCAT2</i>	0.209545881	0.018538202	7.851718969	8.06126485
<i>UBN1</i>	0.208935276	8.83816E-05	9.819645691	10.02858097
<i>FBXL5</i>	0.208143818	4.25679E-05	9.484619041	9.692762859
<i>HDAC4</i>	0.208006701	7.36963E-06	7.963039414	8.171046115
<i>RPH3A</i>	0.207477241	0.001828814	6.421809131	6.629286372
<i>ERII</i>	0.207433594	6.64201E-06	6.75170867	6.959142264
<i>PPP1R3B</i>	0.207183093	4.23135E-07	6.841855903	7.049038996
<i>YIPF1</i>	0.207028063	6.08776E-09	9.14033844	9.347366503
<i>DDX60L</i>	0.206922625	0.005866369	8.587412183	8.794334809
<i>PDK3</i>	0.206907488	2.67905E-07	8.104521921	8.31142941
<i>ORAI2</i>	0.20597725	3.51196E-06	7.27177709	7.47775434
<i>SLC40A1</i>	0.205367585	0.000378977	8.975949349	9.181316934
<i>HSPA1A</i>	0.205216629	0.003922027	10.594673	10.79988963
<i>SAMD9L</i>	0.205199582	0.020917589	9.025986807	9.231186389
<i>TBC1D8</i>	0.204929087	0.000804578	7.418300941	7.623230028
<i>PCNX</i>	0.204338782	0.000173573	9.336829006	9.541167788
<i>SLC38A5</i>	0.204051299	0.047645415	7.307564248	7.511615547
<i>CARD6</i>	0.203969487	0.000320599	7.230250324	7.43421981
<i>MPO</i>	0.203718632	0.035103846	6.389565361	6.593283993
<i>MLKL</i>	0.20355518	1.94054E-06	9.128813557	9.332368737
<i>COL18A1</i>	0.203415649	6.32903E-05	6.998430181	7.20184583
<i>CEACAM3</i>	0.203368551	0.000942118	7.975551886	8.178920437
<i>RXRA</i>	0.2032459	0.000147329	10.16102127	10.36426717
<i>HIST1H3F</i>	0.202965959	0.000690543	6.682240745	6.885206704
<i>ANKRD55</i>	0.202580134	0.004604274	7.06847083	7.271050964
<i>HMHA1</i>	0.202341065	0.000111191	9.823760913	10.02610198
<i>RHOG</i>	0.202315428	4.14463E-05	11.49054361	11.69285904
<i>ADCY4</i>	0.201945389	0.000106879	7.072212159	7.274157548
<i>GNB2</i>	0.201694094	1.41581E-05	8.366968	8.568662094
<i>OSBPL1A</i>	0.201277927	2.21E-05	6.705589632	6.906867559
<i>RRP12</i>	0.201096717	5.40583E-05	7.404674776	7.605771493
<i>KIAA0513</i>	0.200989943	0.000825569	8.555005174	8.755995117
<i>CAMKK2</i>	0.200975804	0.001246921	7.609859722	7.810835526
<i>ACTN1</i>	0.200942025	0.005538219	10.2942787	10.49522072
<i>CDK5RAP2</i>	0.200749297	0.000408112	7.644308174	7.84505747

Supplementary Table S4. Downregulated genes in ulcerative colitis.

Gene	logFC	adj.P.Val	Mean expression in controls	Mean expression in UC patients
<i>GZMK</i>	-0.54276969	1.36235E-07	9.907031269	9.36426158
<i>KLRF1</i>	-0.489193299	2.23671E-06	8.23665076	7.747457461
<i>KLRB1</i>	-0.42863301	5.18528E-07	10.34694654	9.918313527
<i>GNLY</i>	-0.404578475	0.000926396	10.6946354	10.29005692
<i>KLRG1</i>	-0.399836009	1.72281E-06	8.456951263	8.057115254
<i>CD160</i>	-0.391252154	6.78365E-05	7.758430009	7.367177855
<i>HLA-DOA1</i>	-0.371479379	0.002765094	9.724728109	9.35324873
<i>KLRD1</i>	-0.339451691	0.000260573	8.49240285	8.152951159
<i>PTGDS</i>	-0.337111393	0.000147503	7.711196531	7.374085139
<i>FCERIA</i>	-0.332440652	0.002512556	8.418384059	8.085943406
<i>CTSW</i>	-0.325435743	1.31528E-05	9.23189858	8.906462837
<i>HLA-DPA1</i>	-0.3201186	0.000221982	11.80595714	11.48583854
<i>MYBL1</i>	-0.317768972	1.24381E-06	7.656253717	7.338484745
<i>CA5B</i>	-0.308290893	2.46878E-09	7.59338578	7.285094887
<i>CD3E</i>	-0.306815722	1.45354E-05	8.852528321	8.545712599
<i>GZMA</i>	-0.29758902	0.009519174	10.09432594	9.796736919
<i>IL7R</i>	-0.288687648	0.000347764	11.85845342	11.56976577
<i>PTGS2</i>	-0.288022055	0.008207209	8.603039734	8.315017679
<i>AUTS2</i>	-0.285023166	2.71035E-08	7.561458138	7.276434973
<i>TSPAN13</i>	-0.282742106	9.17176E-06	7.811237897	7.528495791
<i>SH2D1A</i>	-0.28190911	3.31699E-05	8.852347232	8.570438122
<i>MPZL1</i>	-0.280733464	1.06822E-05	7.558497218	7.277763754
<i>CD96</i>	-0.28013543	2.21E-05	9.073561077	8.793425647
<i>P2RY10</i>	-0.276787555	4.13517E-06	7.842649038	7.565861484
<i>CCL3</i>	-0.271744826	0.006357717	7.310466509	7.038721683
<i>RPL21</i>	-0.270778037	0.001069545	11.60423728	11.33345924
<i>TRAT1</i>	-0.268016459	9.11559E-05	8.320151464	8.052135005
<i>CHST7</i>	-0.265911956	4.79986E-06	8.538227044	8.272315088
<i>AKR1C3</i>	-0.265182199	0.003616443	7.842526254	7.577344054
<i>SI00A10</i>	-0.265122354	1.23252E-07	11.69800773	11.43288537
<i>TGFBR3</i>	-0.263975614	0.004591377	8.70914557	8.445169956
<i>RASGRP1</i>	-0.260369244	2.64051E-05	9.770539584	9.510170339
<i>PLEKHA1</i>	-0.258868605	1.31237E-05	8.74045332	8.481584714
<i>CD69</i>	-0.258087885	0.000197454	8.326335599	8.068247714
<i>TARP</i>	-0.25677345	0.001559009	8.312093786	8.055320336
<i>RPL31</i>	-0.256231413	0.009941562	10.99303656	10.73680515
<i>CD2</i>	-0.25411501	0.000370669	10.61316112	10.35904611
<i>RPS28</i>	-0.25376374	0.00150051	11.33465859	11.08089485
<i>CCR3</i>	-0.248476437	0.008615783	7.791092488	7.542616051
<i>SH2D1B</i>	-0.247954883	0.003896324	7.447422982	7.199468099
<i>PTGDR</i>	-0.244788646	0.00011061	7.443450309	7.198661662
<i>GPR183</i>	-0.242566097	2.53244E-07	8.048560943	7.805994846
<i>CLEC7A</i>	-0.242559574	0.000246511	7.795481357	7.552921783
<i>NCR3</i>	-0.240255468	1.15639E-05	7.50649351	7.266238041
<i>EIF1AX</i>	-0.239017579	2.26597E-05	7.949247445	7.710229866
<i>IL32</i>	-0.238553848	0.001828814	9.891016147	9.652462299
<i>NKG7</i>	-0.237356426	0.038335796	11.58810348	11.35074705
<i>CHI3L1</i>	-0.236903718	0.015224825	7.868792769	7.631889051
<i>CPA3</i>	-0.235516285	0.021642097	6.755773986	6.520257701
<i>RNF125</i>	-0.234940201	4.2856E-07	7.946358499	7.711418298
<i>PRF1</i>	-0.232692903	0.023564455	10.40708561	10.1743927
<i>GRAMD1C</i>	-0.231810705	0.002220592	6.439380764	6.207570059
<i>MCOLN2</i>	-0.231317228	0.000123773	7.821073146	7.589755917
<i>KLRC3</i>	-0.230633607	0.000708328	6.720063406	6.489429799
<i>GATA3</i>	-0.230507152	1.6067E-06	7.630519094	7.400011942
<i>C8orf59</i>	-0.229617894	0.002155632	8.338626791	8.109008897

<i>NOP58</i>	-0.229585782	8.44914E-06	9.371342682	9.1417569
<i>ADRB2</i>	-0.228547067	1.72213E-06	8.903860282	8.675313215
<i>CD40LG</i>	-0.228405082	0.000425307	7.126630124	6.898225041
<i>SAMD3</i>	-0.228132054	0.000385215	8.175052023	7.946919969
<i>RPL9</i>	-0.227181478	0.002026958	11.6460882	11.41890673
<i>STAT4</i>	-0.226992083	0.000589996	9.774462903	9.54747082
<i>NUCKS1</i>	-0.225654143	5.18323E-06	9.211769656	8.986115513
<i>IFFO2</i>	-0.225417002	1.01949E-06	7.052705213	6.827288211
<i>PTMA</i>	-0.225100116	0.004898902	10.37547467	10.15037455
<i>HLA-DOB</i>	-0.222973332	0.001061637	7.56509302	7.342119688
<i>TTC39C</i>	-0.222950076	2.43827E-06	8.265109188	8.042159112
<i>EOMES</i>	-0.222861811	0.004266778	9.502013988	9.279152177
<i>RRN3</i>	-0.222701085	9.89117E-06	8.299957865	8.07725678
<i>SKAPI</i>	-0.221954305	0.000413285	9.091830243	8.869875939
<i>NMT2</i>	-0.221163044	5.39355E-05	7.585102519	7.363939475
<i>PID1</i>	-0.22080855	0.000149764	7.205741346	6.984932796
<i>CD3G</i>	-0.220560979	0.002155632	8.993425592	8.772864613
<i>ID2</i>	-0.220198424	0.000126113	9.611190037	9.390991613
<i>LSM5</i>	-0.21915743	0.00044188	7.696933159	7.47777573
<i>ZMYM6</i>	-0.218604065	8.49709E-09	7.896991879	7.678387814
<i>ANKRD36B</i>	-0.218541086	6.2904E-05	7.807467528	7.588926442
<i>OGFRL1</i>	-0.218509598	3.17048E-05	8.758265371	8.539755773
<i>TMEM14B</i>	-0.218168068	3.45803E-05	9.671896371	9.453728302
<i>NOL10</i>	-0.21689355	0.001755439	7.480620487	7.263726937
<i>RORA</i>	-0.216699292	6.16654E-09	7.068316707	6.851617415
<i>ATP2B1</i>	-0.215845199	1.53701E-06	7.966717295	7.750872095
<i>RPS6KA5</i>	-0.214681069	0.000251178	8.105657336	7.890976266
<i>AHR</i>	-0.213609323	0.00093433	9.78666326	9.573053937
<i>RFTN1</i>	-0.213507116	0.000223391	9.038212533	8.824705417
<i>ZNF721</i>	-0.213504892	0.000751594	8.546893681	8.333388789
<i>ZNF264</i>	-0.212412293	1.63124E-05	7.860387005	7.647974712
<i>TNF</i>	-0.212212278	0.001140163	7.831848163	7.619635886
<i>RPL14</i>	-0.211941234	0.002648929	10.21741908	10.00547785
<i>MRPL50</i>	-0.210661184	0.000307635	7.647633777	7.436972593
<i>CCDC65</i>	-0.209807238	4.96873E-06	6.357679344	6.147872106
<i>UBE2Q2</i>	-0.209056569	0.000119852	8.927351504	8.718294935
<i>ZNF91</i>	-0.208925003	0.003597411	8.180767487	7.971842484
<i>PTS</i>	-0.208721244	1.05735E-07	7.303407842	7.094686598
<i>SET</i>	-0.208704243	0.00179556	10.44982836	10.24112412
<i>CD4</i>	-0.208348005	0.000637254	7.835288147	7.626940141
<i>DUSP6</i>	-0.207581161	0.000560809	10.0698464	9.86226524
<i>KIAA0355</i>	-0.20752139	6.27592E-07	8.604726028	8.397204637
<i>SYTL2</i>	-0.207430191	0.000178212	7.07508954	6.867659349
<i>RPL37A</i>	-0.207152508	0.00018589	11.06648827	10.85933576
<i>ID3</i>	-0.206962108	0.00143894	7.844590767	7.637628659
<i>TMEM138</i>	-0.205743156	0.000939319	7.933335087	7.727591931
<i>ZNF329</i>	-0.205707208	3.55135E-06	7.307791008	7.1020838
<i>HOPX</i>	-0.205382887	0.000363599	7.072362809	6.866979922
<i>RPL10A</i>	-0.205320269	0.000192804	12.27000936	12.06468909
<i>INPP4B</i>	-0.204990579	0.000408112	7.323063626	7.118073047
<i>FAM175A</i>	-0.204155368	0.029281898	9.248603505	9.044448136
<i>BCL11A</i>	-0.203832284	3.19595E-05	8.101942862	7.898110578
<i>JARID2</i>	-0.203514837	2.04037E-06	9.430487581	9.226972744
<i>RBM34</i>	-0.202669902	4.64634E-05	6.9967494	6.794079498
<i>SIPRI</i>	-0.201744003	0.000939319	9.086815035	8.885071033
<i>FRG1</i>	-0.201711744	0.000286386	8.724795137	8.523083393
<i>GPR174</i>	-0.201515187	5.43888E-05	6.390506685	6.188991497
<i>RPL15</i>	-0.201464109	0.00584629	11.30178073	11.10031662
<i>CDKN1C</i>	-0.201219373	0.002790693	7.572380021	7.371160649

<i>PCID2</i>	-0.200837865	5.12704E-06	9.408071255	9.20723339
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Supplementary Table S5. Comprehensive list of miRNAs targeting hub genes of the PPI network of CD.

miRNA	Gene Symbols (target score)
hsa-miR-106a-5p	IRF9(94) , CD69(91) , IRF1(89) , CD274(87)
hsa-miR-106b-5p	IRF9(95) , CD69(93) , IRF1(89) , CD274(87)
hsa-miR-17-5p	IRF9(94) , CD69(91) , IRF1(89) , CD274(87)
hsa-miR-20a-5p	IRF9(95) , CD69(93) , IRF1(89) , CD274(87)
hsa-miR-20b-5p	IRF9(94) , CD69(91) , IRF1(89) , CD274(87)
hsa-miR-519d-3p	IRF9(94) , CD69(91) , IRF1(89) , CD274(87)
hsa-miR-93-5p	IRF9(94) , CD69(91) , IRF1(89) , CD274(87)
hsa-miR-130a-3p	IRF1(94) , CD69(91) , FYN(83)
hsa-miR-130b-3p	IRF1(94) , CD69(93) , FYN(87)
hsa-miR-1827	MYC(92) , STAT5B(83) , EIF2AK2(83)
hsa-miR-301a-3p	IRF1(94) , CD69(91) , FYN(83)
hsa-miR-301b-3p	IRF1(94) , CD69(91) , FYN(83)
hsa-miR-454-3p	IRF1(96) , CD69(93) , FYN(86)
hsa-miR-105-5p	CD274(89) , CD40LG(88)
hsa-miR-1304-5p	MYC(96) , STAT5B(96)
hsa-miR-15a-5p	IL7R(82) , CD3E(81)
hsa-miR-15b-5p	IL7R(82) , CD3E(81)
hsa-miR-16-5p	IL7R(82) , CD3E(81)
hsa-miR-195-5p	IL7R(82) , CD3E(81)
hsa-miR-204-5p	IL7R(96) , JAK2(91)
hsa-miR-211-5p	IL7R(96) , JAK2(91)
hsa-miR-2682-5p	MYC(90) , CD40LG(85)
hsa-miR-328-3p	EIF2AK2(87) , PRF1(82)
hsa-miR-34b-5p	MYC(91) , CD40LG(89)
hsa-miR-380-3p	JAK2(92) , FYN(91)
hsa-miR-449c-5p	MYC(90) , CD40LG(89)
hsa-miR-510-5p	MYD88(86) , IL7R(85)
hsa-miR-548am-5p	KLRD1(88) , EIF2AK2(87)
hsa-miR-548b-5p	KLRD1(88) , EIF2AK2(87)
hsa-miR-548c-5p	KLRD1(88) , EIF2AK2(87)
hsa-miR-548d-5p	KLRD1(88) , EIF2AK2(87)
hsa-miR-548h-5p	KLRD1(88) , EIF2AK2(87)
hsa-miR-548j-5p	KLRD1(88) , EIF2AK2(87)
hsa-miR-548o-5p	KLRD1(88) , EIF2AK2(87)
hsa-miR-582-5p	CD40LG(88) , MAPK14(81)
hsa-miR-629-3p	ITGAX(93) , MAPK14(87)
hsa-miR-653-3p	IRF1(90) , ITGAX(86)
hsa-let-7f-5p	CCR7(82)
hsa-miR-122-5p	CD40LG(97)
hsa-miR-124-3p	MAPK14(94)
hsa-miR-125a-3p	IFIT2(89)
hsa-miR-128-3p	MAPK14(94)
hsa-miR-1285-3p	IFI35(82)
hsa-miR-129-5p	STAT5B(81)
hsa-miR-135a-5p	JAK2(82)
hsa-miR-135b-5p	JAK2(82)
hsa-miR-142-5p	CD69(88)
hsa-miR-145-3p	GZMK(88)
hsa-miR-150-3p	FYN(89)
hsa-miR-150-5p	ITGAX(92)
hsa-miR-154-5p	IFIT2(89)
hsa-miR-16-2-3p	IFIT2(87)
hsa-miR-181a-5p	CD69(80)
hsa-miR-181b-5p	CD69(80)
hsa-miR-181c-3p	CD69(85)
hsa-miR-181c-5p	CD69(80)

hsa-miR-181d-5p	CD69(80)
hsa-miR-183-5p	KLRD1(89)
hsa-miR-197-3p	JAK2(86)
hsa-miR-19a-3p	MAPK14(89)
hsa-miR-19b-3p	MAPK14(89)
hsa-miR-203a-3p	IFIT3(83)
hsa-miR-216a-5p	JAK2(91)
hsa-miR-219a-1-3p	JAK2(92)
hsa-miR-22-3p	MAPK14(89)
hsa-miR-23a-3p	STAT5B(97)
hsa-miR-23b-3p	STAT5B(97)
hsa-miR-24-3p	STAT2(85)
hsa-miR-25-3p	CD69(100)
hsa-miR-27a-3p	MAPK14(89)
hsa-miR-27b-3p	MAPK14(89)
hsa-miR-3065-5p	LTF(92)
hsa-miR-3117-3p	CD274(93)
hsa-miR-3121-3p	CD274(95)
hsa-miR-3152-3p	CD40LG(97)
hsa-miR-32-5p	CD69(100)
hsa-miR-320b	CD274(92)
hsa-miR-320c	CD274(92)
hsa-miR-320d	CD274(92)
hsa-miR-330-3p	IL7R(86)
hsa-miR-337-3p	JAK2(93)
hsa-miR-338-5p	TLR4(88)
hsa-miR-342-3p	ITGAM(82)
hsa-miR-361-3p	FYN(83)
hsa-miR-363-3p	CD69(100)
hsa-miR-365a-3p	KLRD1(88)
hsa-miR-365b-3p	KLRD1(88)
hsa-miR-367-3p	CD69(100)
hsa-miR-371a-5p	IFIT2(80)
hsa-miR-377-3p	CD274(84)
hsa-miR-381-3p	FYN(84)
hsa-miR-383-5p	IRF1(83)
hsa-miR-409-3p	IFIT2(90)
hsa-miR-424-5p	CD3E(81)
hsa-miR-431-5p	CD69(86)
hsa-miR-432-5p	CCR7(86)
hsa-miR-448	TLR4(93)
hsa-miR-450a-1-3p	STAT1(89)
hsa-miR-450a-2-3p	CD69(91)
hsa-miR-4713-5p	ITGAX(88)
hsa-miR-486-3p	IL2RB(87)
hsa-miR-486-5p	CD247(93)
hsa-miR-495-3p	STAT1(86)
hsa-miR-497-3p	IL7R(85)
hsa-miR-497-5p	CD3E(81)
hsa-miR-506-3p	MAPK14(94)
hsa-miR-513a-3p	KLRD1(88)
hsa-miR-513c-3p	KLRD1(88)
hsa-miR-548an	CD69(83)
hsa-miR-5571-5p	KLRD1(87)
hsa-miR-568	JAK2(92)
hsa-miR-589-3p	HSP90AB1(94)
hsa-miR-627-3p	TLR4(89)
hsa-miR-633	EIF2AK2(93)
hsa-miR-654-5p	CD2(87)

hsa-miR-656-3p	FYN(86)
hsa-miR-660-5p	CD8A(87)
hsa-miR-661	KLRD1(85)
hsa-miR-665	STAT2(88)
hsa-miR-802	CD274(82)
hsa-miR-873-3p	CD40LG(90)
hsa-miR-876-3p	IFIT3(92)
hsa-miR-92a-3p	CD69(100)
hsa-miR-92b-3p	CD69(100)
hsa-miR-939-3p	KLRD1(80)

Supplementary Table S6. Comprehensive list of miRNAs targeting hub genes of the PPI network of UC.

miRNA	Gene Symbols (target score)
hsa-miR-150-5p	TNF(87) , CD38(81)
hsa-miR-15a-5p	IL7R(82) , CD3E(81)
hsa-miR-15b-5p	IL7R(82) , CD3E(81)
hsa-miR-16-5p	IL7R(82) , CD3E(81)
hsa-miR-181a-5p	TNF(86) , CD69(80)
hsa-miR-181b-5p	TNF(86) , CD69(80)
hsa-miR-181c-5p	TNF(86) , CD69(80)
hsa-miR-181d-5p	TNF(86) , CD69(80)
hsa-miR-195-5p	IL7R(82) , CD3E(81)
hsa-miR-510-5p	MYD88(86) , IL7R(85)
hsa-miR-513a-3p	KLRD1(88) , CD38(82)
hsa-miR-513c-3p	KLRD1(88) , CD38(82)
hsa-miR-105-5p	CD40LG(88)
hsa-miR-106a-5p	CD69(91)
hsa-miR-106b-5p	CD69(93)
hsa-miR-122-5p	CD40LG(97)
hsa-miR-130a-3p	CD69(91)
hsa-miR-130b-3p	CD69(93)
hsa-miR-142-5p	CD69(88)
hsa-miR-145-3p	GZMK(88)
hsa-miR-17-5p	CD69(91)
hsa-miR-181c-3p	CD69(85)
hsa-miR-183-5p	KLRD1(89)
hsa-miR-204-5p	IL7R(96)
hsa-miR-20a-5p	CD69(93)
hsa-miR-20b-5p	CD69(91)
hsa-miR-211-5p	IL7R(96)
hsa-miR-25-3p	CD69(100)
hsa-miR-2682-5p	CD40LG(85)
hsa-miR-301a-3p	CD69(91)
hsa-miR-301b-3p	CD69(91)
hsa-miR-3065-5p	LTF(92)
hsa-miR-3121-3p	TNF(86)
hsa-miR-3152-3p	CD40LG(97)
hsa-miR-3173-3p	CD38(83)
hsa-miR-32-5p	CD69(100)
hsa-miR-328-3p	PRF1(82)
hsa-miR-330-3p	IL7R(86)
hsa-miR-338-5p	TLR4(88)
hsa-miR-342-3p	ITGAM(82)
hsa-miR-34a-3p	TNF(96)
hsa-miR-34b-5p	CD40LG(89)
hsa-miR-363-3p	CD69(100)
hsa-miR-365a-3p	KLRD1(88)
hsa-miR-365b-3p	KLRD1(88)
hsa-miR-367-3p	CD69(100)
hsa-miR-424-5p	CD3E(81)
hsa-miR-431-5p	CD69(86)
hsa-miR-448	TLR4(93)
hsa-miR-449c-5p	CD40LG(89)
hsa-miR-450a-2-3p	CD69(91)
hsa-miR-452-3p	TNF(84)
hsa-miR-454-3p	CD69(93)
hsa-miR-497-3p	IL7R(85)
hsa-miR-497-5p	CD3E(81)
hsa-miR-519d-3p	CD69(91)

hsa-miR-548am-5p	KLRD1(88)
hsa-miR-548an	CD69(83)
hsa-miR-548b-5p	KLRD1(88)
hsa-miR-548c-5p	KLRD1(88)
hsa-miR-548d-5p	KLRD1(88)
hsa-miR-548h-5p	KLRD1(88)
hsa-miR-548j-5p	KLRD1(88)
hsa-miR-548o-5p	KLRD1(88)
hsa-miR-5571-5p	KLRD1(87)
hsa-miR-576-5p	CD38(83)
hsa-miR-582-5p	CD40LG(88)
hsa-miR-627-3p	TLR4(89)
hsa-miR-654-5p	CD2(87)
hsa-miR-661	KLRD1(85)
hsa-miR-664b-3p	CD38(86)
hsa-miR-873-3p	CD40LG(90)
hsa-miR-92a-3p	CD69(100)
hsa-miR-92b-3p	CD69(100)
hsa-miR-93-5p	CD69(91)
hsa-miR-939-3p	KLRD1(80)